

SEQUENCE LISTING

(1) GENERAL INFORMATION

(i) APPLICANT: Hadlaczky, Gyula
Szalay, Aladar

(ii) TITLE OF THE INVENTION: ARTIFICIAL CHROMOSOMES, USES THEREOF
AND METHODS FOR PREPARING ARTIFICIAL CHROMOSOMES

(iii) NUMBER OF SEQUENCES: 34

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Heller Ehrman White & McAuliffe
(B) STREET: 4250 Executive Square, 7th Floor
(C) CITY: La Jolla
(D) STATE: CA
(E) COUNTRY: USA
(F) ZIP: 92037

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Diskette
(B) COMPUTER: IBM Compatible
(C) OPERATING SYSTEM: DOS
(D) SOFTWARE: FastSEQ Version 1.5

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:
(B) FILING DATE: 28-NOV-2000

(vi) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/835,682
(B) FILING DATE: 10-APR-1997
(C) CLASSIFICATION:

(vi) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/695,191
(B) FILING DATE: 07-AUG-1996
(C) CLASSIFICATION:

(vi) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/682,080
(B) FILING DATE: 15-JUL-1996
(C) CLASSIFICATION:

(vi) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/629,822
(B) FILING DATE: 10-APR-1996
(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Seidman, Stephanie L
(B) REGISTRATION NUMBER: 33,779
(C) REFERENCE/DOCKET NUMBER: 24601-402G

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 858-450-8403
(B) TELEFAX: 858-587-5360
(C) TELEX:

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1293 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GAATTCATCA	TTTTTCANGT	CCTCAAGTGG	ATGTTTCTCA	TTTNCCATGA	TTTTAAGTTT	60
TCTCGCCATA	TTCTCTGGTCC	TACAGTGTGC	ATTCTCTCCAT	TTTNCACGTT	TTNCAGTGT	120
TTCGTCAATT	TCAAGTCCTC	AAAGTGGATGT	TTCTCATTTN	CCATGAATT	CAGTTTCTN	180
GCCATATTCC	ACGTCCCTACA	GNGGACATTT	CTAAATTTNC	CACCTTTTC	AGTTTCTCTC	240
GCCATATTTC	ACGTCCCTAAA	ATGTGTATTT	CTCGTTNNCC	GTGATTTC	GTGATTTC	300
CAGATTCCAG	GTCCTATAAT	GTGCATTCT	CATTNNNAC	GTGATTTC	GTGATTTC	360
TTTTTTCAAG	TCGGCAAGTG	GATGTTCTC	ATTINCCATG	ATTINCCATG	TTCTTGNAAT	420
ATTCCATGTC	CTACAATGAT	CATTTTAAT	TTTCCACCTT	TTCATTTTC	CACGCCATAT	480
TTCATGTCCT	AAAGTGTATA	TTTCTCTTT	TCGGCGATT	TCAGTTTCT	CGCCATATT	540
CAGGTCCTAC	AGTGTGCATT	CCTCATT	CACCTTTTC	ACTGATTTC	TCATTTTC	600
AGTCGTCAAC	TGGATCTTC	TAATTTC	TGATTTTCAG	TTATCTTGTC	ATATTCCATG	660
TCCTACAGTG	GACATTCTA	AATTTCCAA	CTTTTCAAT	TTTCTCGAC	ATATTGACG	720
TGCTAAAGTG	TGTATTCTT	ATTTCCGTG	ATTTTCAGTT	TTCTGCCAT	ATTCCAGGTC	780
CTAATAGTGT	GCATTTCTCA	TTTTCACGT	TTTCAGTGA	TTTCGTCATT	TTTCCAGTT	840
GTCAAGGGGA	TGTTTCTCAT	TTTCCATGAG	TGTCAGTTT	CTTGCTATAT	TCCATGTCCT	900
ACAGTGACAT	TTCTAAATAT	TATACCTTT	TCAGTTTTC	TCACCCATATT	TCACGTCTA	960
AAGTATATAT	TTCTCATTT	CCCTGATT	CAGTTTCCCT	GCCATATTCC	AGGTCTCTACA	1020
GTGTGCAATT	CTCATTTTC	ACGTTTTC	GTAATTTC	CATTTTTAA	GCCCTCAAAT	1080
GGATGTTCT	CATTTCAT	GATTTTCAGT	TTTCTTGCCA	TATACCATGT	CCTACAGTGG	1140
ACATTCTAA	ATTATCCACC	TTTTTCAGTT	TTTCATCGGC	ACATTTCACG	TCCTAAAGTG	1200
TGTATTCTA	ATTTTCAGTG	ATTTTCAGTT	TTCTGCCAT	ATTCCAGGAC	CTACAGTGTG	1260
CATTTCAT	TTTCACGTT	TTTCAGTGAA	TTC			1293

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1044 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

AGGCCTATGG	TGAAAAAGGA	AATATCTTCC	CCTGAAAAC	AGACAGAAGG	ATTCTCAGAA	60
TCTTATTG	GATGTGCGCC	CCTCAACTAA	CAGTGTGAA	GCTTTCTTTT	GATAGAGCAG	120
TTTTGAAACA	CTCTTTTGT	AAAATCTGCA	AGAGGATATT	TGGATAGCTT	TGAGGATTTC	180
CGTTGGAAAC	GGGATTGTCT	TCATATAAAC	CCTAGACAGA	AGCATTCTCA	GAAGCTTCAT	240
TGGGATGTTT	CAGTGAAGT	CACAGTGTG	AACAGTCCC	TTTCATAGAG	CAGGTTTGA	300
ACACTCTTT	TTGTTAGTATC	TGGAAGTGG	CATTGGAGC	GATCTCAGGA	CTGCGGTGAA	360
AAAGGAAATA	TCTTCCAATA	AAAGCTAGAT	AGAGGCAATG	TCAGAAACCT	TTTTCATGAT	420
GTATCTACTC	AGCTAACAGA	GTTGAACCTT	CCTTGAGAG	AGCAGTTTG	AAACACTCTT	480
TTTGTGGAAT	CTGCAAGTGG	ATATTGTC	AGCTTGAGG	ATTTCGTTGG	GAAACGGGAT	540
TACATATAAA	AAGCAGACAG	CAGCATTCCC	AGAAACTCT	TTGTGATGTT	TGCATTCAAG	600
TCACAGAGTT	GAACATTCCC	TTTCATAGAG	CAGGTTGAA	ACACACTTT	TGATGTATCT	660

GGATGTGGAC	ATTTCAGCG	CTTTCAGGCC	TAAGGTGAAA	AGGAAATATC	TTCCCCCTGAA	720
AACTAGACAG	AAGCATTCTC	AGAAAATTAT	TTGTGATGTTG	CGCCCTCAAC	TAACAGTGT	780
GAAGCTTCT	TTTGATAGAG	GCAGTTTGAA	AACACTCTT	TGTGGAATCT	GCAAGTGGAT	840
ATTTGTCTAG	CTTGAGGAT	TTCTTGGAA	ACGGGATTAC	ATATAAAAAG	CAGACAGCAG	900
CATTCCCAGA	ATCTTGTGTTG	TGATGTTGC	ATTCAAGTCA	CAGAGTTGAA	CATTCCCTT	960
CAGAGAGCAG	GTTGAAACAC	TCTTTTATA	GTATCTGGAT	GTGGACATTT	GGAGCGCTTT	1020
CAGGGGGGAT	CCTCTAGAAT	TCCT				1044

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2492 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CTGCAGCTGG	GGGTCTCAA	TCAGGCAGGG	GCCCCTTACT	ACTCAGATGG	GGTGGCCGAG	60
TAGGGGAAGG	GGGTGCAGGC	TGCATGAGTG	GACACAGCTG	TAGGACTACC	TGGGGGCTGT	120
GGATCTATGG	GGGTGGGGAG	AAGCCCAGTG	ACAGTGCCTA	GAAGAGACAA	GGTGGCCTGA	180
GAGGGTCTGA	CGAACATAGA	GCTGGGATG	TTGGGCCAG	GTCTCAAGCA	GGAAGTGGAG	240
AATGGGACAG	GCTTGAGGAT	ACTCTACTCA	GTAGCCAGGA	TAGCAAGGAG	GGCTTGGGGT	300
TGCTATCCTG	GGGTTCAACC	CCCCCAGGTTG	AAGGCCCTGG	GGGAGATGGT	CCCAGGACAT	360
ATTACAATGG	ACACAGGAGG	TTGGGACACC	TGGAGTCACC	AAACAAAACC	ATGCCAAGAG	420
AGACCATGAG	TAGGGGTGTC	CAGTCCAGCC	CTCTGACTGA	GCTGCATTGT	TCAAATCCAA	480
AGGGCCCTG	CTGCCACCTA	GTGGCTGATG	GCATCCACAT	GACCCCTGGC	CACACGCGTT	540
TAGGGTCTCT	GTGAAGACCA	AGATCCTTGT	TACATTGAAC	GACTCCTAAA	TGAGCAGAGA	600
TTTCCACCTA	TTCGAAACAA	TCACATAAAA	TCCATCCTGG	AAAAAGCCTG	GGGGATGGCA	660
CTAAGGCTAG	GGATAGGGTG	GGATGAAGAT	TATAGTTACA	GTAAGGGT	TAGGGTTAGG	720
GATCAACGTT	GGTTAGGAGT	TAGGGATACA	GTAGGGTACC	GGTAGGGTTA	GGGGTTAGGG	780
TTAGGGGTTA	GGGGTTAGGGT	TAGGGTAGG	GTAGGGTTA	GGGGTTAGGG	GTAGGGTTA	840
GGGTTAGGTT	TTGGGGTGGC	GTATTTTGGT	CTTATACGCT	GGCTTCACT	GGCAATGAAA	900
AGAGTTCTTG	TTTTCCCTTC	AGCAATTGTT	CATTTTTAAA	AGAGTTTAGC	AATTCTAACAA	960
GATATAGACC	AGCTGTGCTA	TCTCATTGTT	GTTCATTCAATT	GTAACCACAT	TGTGGTTCA	1020
ATGTGTTTAC	TTGCCATCTG	TAGATCTTCT	TTGCGTGAGG	TGTCTGTTCA	GATGTGTGTG	1080
CATTTCTTGN	NTTNGGCTG	TTAACCTTAT	TGTTTAGTT	TAATAATT	TTATATATT	1140
GAAGACAAAT	CTTTCTCAGA	TGTGTATTG	CAAATATTTC	TTCAATATGA	GGCTTGCTT	1200
TGTCTCTAAC	AAGGTCTCTT	CAGAGATAAC	TTAAATATAA	GAAATCCAA	CTGTCACTTC	1260
TTTTGTGTAT	ATCTACCTT	TGTGTCAATT	GTAAATTAA	ATTACCAAC	CCAAAGGGCAG	1320
ATAGCTTTT	TTCTTATTGTT	TCTCTAGAA	ATTGTATAG	TTTTGCAATT	TTAGTGTAG	1380
GATGATTTG	AGTGATTATT	TGTGTAAGTT	GTAAAGTTT	CGTCTATATC	CATATCATTT	1440
CTTATGGTT	CCAATTAATC	GTTCCTTCAC	TATTTTGAGG	AAAGACACAG	GATAGTGGGC	1500
TTTGTAGAG	TAGATAGGTA	GCTAGACATG	ACAGGGAGG	GGCCTCCTGG	AAAAGGGAAA	1560
GTCTGGGAAG	GCTCACCTGG	AGGACCACCA	AAAATTACA	TATTAGTAGC	ATCTCTAGTG	1620
CTGGAGTGG	TGGGCACCTTG	TCAATTGTTG	GTAGGAGGGA	AAAGAGGTCC	TATGCAGAAA	1680
GAAACTCCCT	AGAACCTCCTC	TGAAGATGCC	CCAATCATTC	ACTCTGCAAT	AAAATGTCA	1740
GAATATTGCT	AGCTACATGC	TGATAAGNN	AAAGGGGACA	TTCTTAAGTG	AAACCTGGCA	1800
CCATAAGTAC	AGATTAGGGC	AGAGAAGGAC	ATTCAAAGA	GGCAGCGCA	GTAGGTACAA	1860
ACGTGATCGC	TGTCAGTGTG	CCTGGGATGG	CGGGAAGGAG	GCTGGTGC	GAGTGGATTC	1920
GTATTGATCA	CCACACATAT	ACCTCAACCA	ACAGTGGAGA	GGTCCACAA	GCCTAAGTGG	1980
GGCAAGTGG	GGAGCTAAGG	CAGTAGCAGG	AAAACCAGAC	AAAGAAAACA	GGTGGAGACT	2040
TGAGACAGAG	GCAGGAATGT	GAAGAAATCC	AAAATAAAAT	TCCCTGCA	GGACTCTTAG	2100
GCTGTTAAT	GCATCGCTA	GTCCCACCTCC	TCCCTATT	TCTACAATAA	ACTCTTACA	2160
CTGTGTTCT	TTCAATGAA	GTTATCTGCC	ATCTTGTAT	TGCCTCTGG	TGAAATGTT	2220
TCTTCCAAGT	AAACACAAGAA	CTGGGACATC	AGCTCTCCCC	AGTAATAGCT	CCGTTTCAGT	2280

TTGAATTAC AGAACTGATG GGCTTAATAA CTGGCGCTCT GACTTTAGTG GTGCAGGAGG	2340
CCGTCACACC GGGACCAAGA GTGCCCTGCC TAGTCCCCAT CTGCCCGCAG GTGGCGGCTG	2400
CCTCGACACT GACAGCAATA GGGTCCGGCA GTGTCCCCAG CTGCCAGCAG GGGGCGTACG	2460
ACGACTACAC TGTGAGCAAG AGGGCCCTGC AG	2492

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 28 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

GGGGAATTCA TTGGGATGTT TCAGTTGA

28

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 29 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

CGAAAGTCCC CCCTAGGAGA TCTTAAGGA

29

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: RNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

CCGCTTAATA CTCTGATGAG TCCGTGAGGA CGAAACGCTC TCGCACC

(2) INFORMATION FOR SEQ ID NO:7:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 25 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

CGATTAAAT TAATTAAGCC CGGGC

25

- (2) INFORMATION FOR SEQ ID NO:8:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 27 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

TAAATTTAAT TAATTCGGGC CCGTCGA

27

- (2) INFORMATION FOR SEQ ID NO:9:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 69 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (D) OTHER INFORMATION IL-2 signal sequence
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

ATG TAC AGG ATG CAA CTC CTG TCT TGC ATT GCA CTA AGT CTT GCA CTT
 Met Tyr Arg Met Gln Leu Leu Ser Cys Ile Ala Leu Ser Leu Ala Leu

48

GTC ACA AAC AGT GCA CCT ACT
 Val Thr Asn Ser Ala Pro Thr

69

- (2) INFORMATION FOR SEQ ID NO:10:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 945 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(vi) ORIGINAL SOURCE:

(ix) FEATURE:

- (A) NAME/KEY: Coding Sequence
- (B) LOCATION: 1...942
- (D) OTHER INFORMATION: Renilla Reiniformis Luciferase

(x) PUBLICATION INFORMATION:

PATENT NO.: 5,418,155

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

AGC TTA AAG ATG ACT TCG AAA GTT TAT GAT CCA GAA CAA AGG AAA CGG	48
Ser Leu Lys Met Thr Ser Lys Val Tyr Asp Pro Glu Gln Arg Lys Arg	
1 5 10 15	
ATG ATA ACT GGT CCG CAG TGG TGG GCC AGA TGT AAA CAA ATG AAT GTT	96
Met Ile Thr Gly Pro Gln Trp Trp Ala Arg Cys Lys Gln Met Asn Val	
20 25 30	
CTT GAT TCA TTT ATT AAT TAT TAT GAT TCA GAA AAA CAT GCA GAA AAT	144
Leu Asp Ser Phe Ile Asn Tyr Tyr Asp Ser Glu Lys His Ala Glu Asn	
35 40 45	
GCT GTT ATT TTT TTA CAT GGT AAC GCG GCC TCT TCT TAT TTA TGG CGA	192
Ala Val Ile Phe Leu His Gly Asn Ala Ala Ser Ser Tyr Leu Trp Arg	
50 55 60	
CAT GTT GTG CCA CAT ATT GAG CCA GTA GCG CGG TGT ATT ATA CCA GAT	240
His Val Val Pro His Ile Glu Pro Val Ala Arg Cys Ile Ile Pro Asp	
65 70 75 80	
CTT ATT GGT ATG GGC AAA TCA GGC AAA TCT GGT AAT GGT TCT TAT AGG	288
Leu Ile Gly Met Gly Lys Ser Gly Lys Ser Gly Asn Gly Ser Tyr Arg	
85 90 95	
TTA CTT GAT CAT TAC AAA TAT CTT ACT GCA TGG TTG AAC TTC TTA ATT	336
Leu Leu Asp His Tyr Lys Tyr Leu Thr Ala Trp Leu Asn Phe Leu Ile	
100 105 110	
TAC CAA AGA AGA TCA TTT TTT GTC GGC CAT GAT TGG GGT GCT TGT TTG	384
Tyr Gln Arg Arg Ser Phe Phe Val Gly His Asp Trp Gly Ala Cys Leu	
115 120 125	
GCA TTT CAT TAT AGC TAT GAG CAT CAA GAT AAG ATC AAA GCA ATA GTT	432
Ala Phe His Tyr Ser Tyr Glu His Gln Asp Lys Ile Lys Ala Ile Val	
130 135 140	
CAC GCT GAA AGT GTA GTA GAT GTG ATT GAA TCA TGG GAT GAA TGG CCT	480
His Ala Glu Ser Val Val Asp Val Ile Glu Ser Trp Asp Glu Trp Pro	
145 150 155 160	
GAT ATT GAA GAA GAT ATT GCG TTG ATC AAA TCT GAA GAA GGA GAA AAA	528
Asp Ile Glu Glu Asp Ile Ala Leu Ile Lys Ser Glu Glu Gly Glu Lys	
165 170 175	
ATG GTT TTG GAG AAT AAC TTC TTC GTG GAA ACC ATG TTG CCA TCA AAA	576
Met Val Leu Glu Asn Asn Phe Phe Val Glu Thr Met Leu Pro Ser Lys	
180 185 190	
ATC ATG AGA AAG TTA GAA CCA GAA GAA TTT GCA GCA TAT CTT GAA CCA	624

Ile Met Arg Lys Leu Glu Pro Glu Glu Phe Ala Ala Tyr Leu Glu Pro	195	200	205	
TTC AAA GAG AAA GGT GAA GTT CGT CGT CCA ACA TTA TCA TGG CCT CGT				672
Phe Lys Glu Lys Gly Glu Val Arg Arg Pro Thr Leu Ser Trp Pro Arg	210	215	220	
GAA ATC CCG TTA GTA AAA GGT GGT AAA CCT GAC GTT GTA CAA ATT GTT				720
Glu Ile Pro Leu Val Lys Gly Gly Lys Pro Asp Val Val Gln Ile Val	225	230	235	240
AGG AAT TAT AAT GCT TAT CTA CGT GCA AGT GAT GAT TTA CCA AAA ATG				768
Arg Asn Tyr Asn Ala Tyr Leu Arg Ala Ser Asp Asp Leu Pro Lys Met	245	250	255	
TTT ATT GAA TCG GAT CCA GGA TTC TTT TCC AAT GCT ATT GTT GAA GGC				816
Phe Ile Glu Ser Asp Pro Gly Phe Phe Ser Asn Ala Ile Val Glu Gly	260	265	270	
GCC AAG AAG TTT CCT AAT ACT GAA TTT GTC AAA GTA AAA GGT CTT CAT				864
Ala Lys Lys Phe Pro Asn Thr Glu Phe Val Lys Val Lys Gly Leu His	275	280	285	
TTT TCG CAA GAA GAT GCA CCT GAT GAA ATG GGA AAA TAT ATC AAA TCG				912
Phe Ser Gln Glu Asp Ala Pro Asp Glu Met Gly Lys Tyr Ile Lys Ser	290	295	300	
TTC GTT GAG CGA GTT CTC AAA AAT GAA CAA TAA				945
Phe Val Glu Arg Val Leu Lys Asn Glu Gln	305	310		

(2) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 30 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

TTTGAATTC A TGTACAGGAT GCAACTCCTG

30

(2) INFORMATION FOR SEQ ID NO:12:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 30 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

TTTGAATTCA GTAGGTGCAC TGTGGTCAC

30

(2) INFORMATION FOR SEQ ID NO:13:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1434 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

CCTCCACGCA	CGTTGTGATA	TGTAGATGAT	AATCATTATC	AGAGCAGCGT	TGGGGGATAA	60
TGTCGACATT	TCCACTCCCA	ATGACGGTGA	TGTATAATGC	TCAAGTATTTC	TCCTGCTTTT	120
TTACCACTAA	CTAGGAACCTG	GGTTTGGCCT	TAATTTCAGAC	AGCCTGGCT	CTGTCTGGAC	180
AGGTCCAGAC	GACTGACACC	ATTAACACTT	TGTCAGCCTC	AGTGAATACA	GTCATAGATG	240
AACAGGCCTC	AGCTAATGTC	AAGATACAGA	GAGGTCTCAT	GCTGGTTAAT	CAAATCATAG	300
ATCTTGCTCA	GATACAACTA	GATGTATTAT	GACAAATAAC	TCAGCAGGGA	TGTGAACAAA	360
AGTTTCCGGG	ATTGTGTGTT	ATTTCATTTC	AGTATGTTAA	ATTACTAGG	ACAGCTAATT	420
TGTCAAAAAG	TCTTTTCAG	TATATGTTAC	AGAATTGGAT	GGCTGAATT	GAACAGATCC	480
TTCGGGAATT	GAGACTTCAG	GTCAACTCCA	CGCGCTTGGG	CCTGTCGCTG	ACCAAAGGAT	540
TACCCAATTG	GATCTCCTCA	GCATTTCTT	TCTTTAAAAA	ATGGGTGGGA	TTAATATTAT	600
TTGGAGATAC	ACTTGCTGT	GGATTAGTGT	TGCTTCTT	ATTGGTCTGT	AAGCTTAAGG	660
CCCAAATAG	GAGAGACAAG	GTGGTTATTG	CCCAGGCGCT	TGCAGGACTA	GAACATGGAG	720
CTTCCCTGTA	TATATGGTTA	TCTATGCTTA	GGCAATAGGT	CGCTGGCCAC	TCAGCTCTTA	780
TATCCCACGA	GGCTAGTCTC	ATTGTACGGG	ATAGAGTGGAG	TGTGCTTCAG	CAGCCCGAGA	840
GAGTTGCAAG	GCTAAGCCT	GCAATGGAAA	GGCTCTGCGG	CATATATGTG	CCTATTCTAG	900
GGGGACATGT	CATCTTCAT	GAAGGTTCA	TGTCCTAGTT	CCCTTCCCCC	AGGCAAAACG	960
ACACGGGAGC	AGGTCAGGGT	TGCTCTGGGT	AAAAGCCTGT	GAGCCTGGGA	GCTAATCCTG	1020
TACATGGCTC	CTTTACCTAC	ACACTGGGG	TTGACCTCT	ATCTCCACTC	TCATTAATAT	1080
GGGTGGCCTA	TTTGCTCTTA	TTAAAAGGAA	AGGGGGAGAT	GTTGGGAGCC	GCGCCACAT	1140
TCGCCGTTAC	AAGATGGCGC	TGACAGCTGT	GTTCTAAGTG	GTAAACAAAT	AATCTGCGCA	1200
TGTGCCGAGG	GTGGTTCTTC	ACTCTCATGTG	TCTGCTCTTC	CCCCTGACGT	CAACTCGGCC	1260
GATGGGCTGC	AGGCAATCA	GGAGTGACAC	GTCCTAGGCG	AAGGAGAATT	CTCCTTAATA	1320
GGGACGGGGT	TTCGTTCTCT	CTCTCTCT	TGCTTCTCT	TCTTGCTTTT	TCGCTCTCTT	1380
GCTTCCCGTA	AAGTGATAAT	GATTATCATC	TACATATCAC	AACGTGCGTG	GAGG	1434

(2) INFORMATION FOR SEQ ID NO:14:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

CCTCCACGCA	CGTTGTGATA	TGTAGATGAT	AATCATTATC	AGAGCAGCGT	TGGGGGATAA	60
TGTCGACATT	TCCACTCCCA	ATGACGGTGA	TGTATAATGC	TCAAGTATTTC	TCCTGCTTTT	120
TTACCACTAA	CTAGGAACCTG	GGTTTGGCCT	TAATTTCAGAC	AGCCTGGCT	CTGTCTGGAC	180
AGGTCCAGAT	ACAACTAGAT	GTATTATGAC	AAATAACTCA	GCAGGGATGT	GAACAAAAGT	240

TTCCGGGATT	GCGTGTATT	TCCATCCAGT	ATGTTAAATT	TAATAGGGCA	GCTAATTG	300
CAAAAAGTCT	TTTCCAGTAT	ATGTTACAGA	ATGGATGGC	TGAATTGAA	CAGATCCTTC	360
GGGAATTGAG	ACTTCAGGTC	AACTCCACGC	GCTTGGACCT	GTCCCTGACC	AAAGGATTAC	420
CCAATTGGAT	CTCCTCAGCA	TTTCTTTCT	TTAAAAAATG	GGTGGGATTA	ATATTATTG	480
GAGATAACT	TTGCTGTGGA	TTAGTGTG	TTCTTGTATT	GGTCTGTAAG	CTTAAGGCC	540
AAACTAGGAG	AGACAAGGTG	GTTATTGCC	AGGCCTTG	AGGACTAGAA	CATGGAGCTT	600
CCCCTGATAT	ATCTATGCTT	AGGCAATAGG	TCGCTGGCCA	CTCAGCTCTT	ATATCCCAG	660
AGGCTAGTCT	CATTGCACGG	GATAGAGTGA	GTGTGCTTC	GCAGCCCGAG	AGAGTTGCAC	720
GGCTAACGAC	TGCAATGGAA	AGGCTCTGCG	GCATATATGA	GCCTATTCTA	GGGAGACATG	780
TCATCTTCA	AGAAGGTTGA	GTGTCCAAGT	GTCTTCCTC	CAGGCAAAAC	GACACGGGAG	840
CAGGTCAAGGG	TTGCTCTGGG	TAAAAGCCTG	TGAGCCTAAG	AGCTAATCCT	GTACATGGCT	900
CCTTTACCTA	CACACTGGGG	ATTTGACCTC	TATCTCCACT	CTCATTAATA	TGGGTGGCCT	960
ATTTGCTCTT	ATTAAGGAGA	AAGGGGGAGA	TGTTGGGAGC	CGCGCCACAC	TTCGCCGTTA	1020
CAAGATGGCG	CTGACAGCTG	TGTTCTAAGT	GGTAAACAAA	TAATCTGCGC	ATGCGCCGAG	1080
GGTGGTTCTT	CACTCATG	GCTCTGCTT	CCCCGTGACG	TCAACTCGGC	CGATGGGCTG	1140
CAGTCATCA	GGGAGTGCAC	CGTCCTAGGC	GAAGGAAAAT	TCTCCTTAAT	AGGGACGGGG	1200
TTTCGTTTTC	TCTCTCTCTT	GCTTCGCTCT	CTCTGCTTC	TTGCTCTCTT	TCCTGAAGA	1260
TGTAAGAATA	AAGCTTGCC	GCAGAAGATT	CTGGTCTGTG	GTGTTCTTCC	TGGCCGGTCG	1320
TGAGAACGCG	TCTAATAACA	ATTGGTGCCTG	AAACCCGGGT	GATAATGATT	ATCATCTACA	1380
TATCACAAACG	TGCGTGGAGG					1400

(2) INFORMATION FOR SEQ ID NO:15:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1369 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

CCTCCACGCA	CGTTGTGATA	TGTAGATGAT	AATCATTATC	ACTTTACGGG	TCCTTCACT	60
ACAACTGCCA	CGAGGCCCG	TGCTCTGGT	ATAGATCTT	GCTGAAAAGG	CACACACATG	120
ACACATACT	CAAGGTGGC	TCATCTGAGC	TGCAGATTCA	GCTTAATATG	AATCTGCCA	180
ATTGTGTGAA	ATCATAAAATC	TTCAAAGTGA	CACTCATTC	CAGACACAGG	TGCCACCTT	240
TGGCATAATA	AACAAACACA	AATTATCTAT	TATATAAAGG	GTGTTAGAAG	ATGCTTTAGA	300
ATACAAATAA	ATCATGGTAG	ATAACAGTAA	GTTGAGAGCT	TAAATTAAAT	AAAGTGATAT	360
ACCTAAATAA	AATTAAATTA	AGAAGGTGTG	AATATACTAC	AGTAGGTAAA	TTATTTCATT	420
AATTATTTT	CTTCTTAAT	CCTTTATAAT	GTTTCTGCT	ATTGTCAATT	GCACATCCAT	480
ATGTTCAATT	CTTCACGTG	ATGAAGAAAT	GTAGTAAATA	TACTTCCGA	ACAAGTTGTA	540
TCAAATATGT	TACACTTGAT	TCCGTTGTT	ACTTATCATT	TTATTATTAT	ATTGATTGCA	600
TTCTTCGTT	ACTTGATATT	ATTACAAGGT	ACATATTCTT	TCTCTCAGAT	CTTCATTATA	660
CTCTAACCAT	TTTATAACAT	ACTTTATTTC	TTCATTCTT	ATGTGTGCTG	TGAGGCACAA	720
ATGCCAGAGA	GAACCTGAGC	AGATAAGAGG	ACAAATTGCA	AGAGTCAGTT	ACCTCCTGCT	780
GTTCCCTGGA	AACTCAGGAT	CAAATTCA	TTGTCAGGCT	TGGCAGCATG	CACTTTTAC	840
CAGTGCCTCC	ATCTTGCTAG	CCCTGAACAT	CAAGCTTGC	AGACAGACAG	GCTACACTAA	900
GTGAACCTGGT	CATTACACAGC	ATGCATGGTG	ATTTATTGTT	ACTTTCTATT	CCATGCCTT	960
ACTATTCTA	CTAGGTGCTA	GCTAGTACTG	TATTCGAGA	TAGAAGTTAC	TGAAAGAAA	1020
TTACATTGTT	TTCTATAGAT	CCTTGATACT	CTTTCAGCAG	ATATAGAGTT	TTAACAGGT	1080
CCTAGACCCCT	TTCTTCACTC	TTATTAATA	CTAAGTACAA	ATTAAGTTA	TCCAAAACAG	1140
TACGGATGTT	GATTTTGTC	AGTTCTACTA	TGATAATAGT	CTAGCTTCAT	AAATCTGACA	1200
CACTTATTGG	GAATGTTTT	GTTAATAAAA	GATTCAAGGTG	TTACTCTAGG	TCAAGAGAAT	1260
ATTAACACATC	AGTCCCAAAT	TACAAACTTC	AATAAAAGAT	TTGACTCTCC	AGTGGTGGCA	1320
ATATAAAGTG	ATAATGATTA	TCATCTACAT	ATCACAACGT	GCCTGGGAGG		1369

(2) INFORMATION FOR SEQ ID NO:16:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 22118 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

GAATTCCCCT	ATCCCTAATC	CAGATTGGTG	GAATAACTTG	GTATAGATGT	TTGTGCATTA	60
AAAACCTGT	AGGATCTTCA	CTCTAGGTCA	CTGGTCAGCA	CTGGAACCTG	AATTGTGGCC	120
CTGAGTGATA	GGTCCTGGGA	CATATGCAGT	TCTGCACAGA	CAGACAGACA	GACAGACAGA	180
CAGACAGACA	GACAGACGTT	ACAAACAAAC	ACGTTGAGCC	GTGTGCCAAC	ACACACACAA	240
ACACCACTCT	GGCCATAATT	ATTGAGGACG	TTGATTATT	ATTCTGTGTT	TGTGAGTCTG	300
TCTGTCTGTC	TGTCTGTCTG	TCTGTCTGTC	TATCAAACCA	AAAGAAACCA	ACAAATTATG	360
CCTGCCTGCC	TGCCTGCCTG	CCTACACAGA	GAAATGATT	CTTCAATCAA	TCTAAAACGA	420
CCTCTTAAGT	TTGCCTTTT	TCTCTTCTT	TATCCTTTTC	TTTTTCTTT	TCTTCTTCT	480
TCCTTCTTC	CTTCCTTCTT	TCCTTCTTCTT	CTTCTTCTTCT	TTCTTCTTCTT	CTTACTTTCT	540
TTCTTCTTCTT	CTTACATTTA	TTCTTCTTCA	ACATAGTTTC	TTAGTGTAAAG	CATCCCTGAC	600
TGTCTTGAAG	ACATTTGTA	GGCCTCAATC	CTGTAAGAGC	CTTCCTCTGC	TTTCAAAATG	660
CTGGCATGAA	TGTTGTACCT	CACTATGACC	AGCTTAGTCT	TCAAGTCTGA	GTAACTGGAA	720
AGGAGTCCA	AGAAGACTGG	TTATATTTT	CATTTATTAT	TGCATTTAA	TTAAAATTAA	780
ATTTACCAA	AGAATTAG	ACTGACCAAT	TCAGAGTCTG	CCGTTAAAAA	GCATAAGGAA	840
AAAGTAGGAG	AAAAACGTGA	GGCTGTCTGT	GGATGGTCGA	GGCTGCTTTA	GGGAGCCTCG	900
TCACCATTCT	GCACCTGCAA	ACCGGGCCAC	TAGAACCCGG	TGAAGGGAGA	ACACAAAGCG	960
ACCTGAAAC	AATAGGTAC	ATGAAGGCCA	GCCACCTCCA	TCTTGTGTTG	CGGGAGGTTCA	1020
GTTAGCAGAC	AAGATGGCTG	CCATGCACAT	GTGTGCTTTC	AGCTTGTGTA	GGTCAAAGTA	1080
CAACCGAGTC	ACAGAACAAAG	GAAGTATACA	CACTGAGTTC	CAGGTAGCC	AGAGTTTACA	1140
CAGAGAAC	ACATCTTGAA	AAAAACAAAAA	AAATAAAATT	AATAAATATA	ATTTAAAAAT	1200
TTAAAAAATAG	CCGGGAGTGA	TGGCGCATGT	CTTTAATCCC	AGCTCTTCTC	AGGCAGAGAT	1260
GGGAGGATT	CTGAGTTTGA	GGCCAGCCTG	GTCTGCAAAG	TGAGTCCAG	GACAGTCAGG	1320
GCTATACAGA	GAAACCCTGT	CTTGAAAACT	AAACTAAATT	AAACTAAACT	AAACTAAAAA	1380
AATATAAAAT	AAAAATTAA	AAGAATTTTA	AAAAACTACA	GAAATCAAAC	ATAAGCCCAC	1440
GAGATGGCAA	GTAAC TGCAA	TCATAGCAGA	ATATTATAC	ACACACACAC	ACACAGACTC	1500
TGTCTAAAAA	TCCAATGTG	CTTCATGATG	ATCAAATTTC	GATAGTCAGT	ATAACTAGAA	1560
GAATCATATG	TCTGAAAATA	AAAGCCAGAA	CTTTTCTGTC	TTTTGTTTTC	TTTGCCCCA	1620
AGATAGGGTT	TCTCTCAGTG	TATCCCTGGC	ATCCCTGCG	GGAACTTCC	TGTAGGTTT	1680
GGTAGCCTCA	AACTCAGAGA	GGTCTCTCT	GCCTGCCTGC	CTGCTGCCTC	GCCTGCCTGC	1740
CTGGCTGCCT	GCCTGCCTCA	CTTCTTCTG	CACCCACACA	ACCGAGTCGA	ACCTAGGATC	1800
TTTATTCTT	TCTCTTCTC	CTTCTTCTT	TTCTTCTTCT	CTTCTTCTTCT	TTCTTTCTT	1860
CTTTCTTCT	TTCTTATTCA	ATTAGTTTC	AATGTAAGTG	TGTGTTGTG	CTCTATCTGC	1920
TGCCTATAGG	CCTGCTTGCC	AGGAGAGGGC	ACACAGAACCT	AGGAGAAACC	ACCATGCAGC	1980
TCCTGAGAAT	AAGTAAAAAA	ACAACAAAAA	AAGGAAATT	TAATCACATA	GAATGTAGAT	2040
ATATGCGAG	GCTGTCAGAG	TGCTTTTAA	GGCTTAGTGT	AAGTAATGAA	AATTGTTGTG	2100
TGTCTTTAT	CCAAACACAG	AAGAGAGGTG	GCTCGGCCTG	CATGTCCTGTT	GTCTGCATGT	2160
AGACCAGGCT	GGCCTTGAAC	ACATTAATCT	GTCTGCCTCT	GCTTCCCTAA	TGCTGCGATT	2220
AAAGGCATGT	GCCACCACTG	CCCGGAGTGA	TTCTCTCTT	TTTTTTTTT	TGGAAAATAC	2280
CTTCTCTCT	TTTCTCTCT	CTCTTCTCT	CTTCCTCTCT	TTCTTCTCT	CTTTTTTTTC	2340
TTTCTTTTT	CTTTTTTTAA	AATTGCTCTA	AGGTTAAAGG	TGTGCTCCAC	2400	
AATTGCTCA	GCTCTGCTCT	AATTCTCTT	AAAAAAAAC	AAACAAAAAA	AAAACCAAAA	2460
CAGTATGTAT	GTATGTATAT	TTAGAAGAAA	TACTAATCCA	TTAATAACTC	TTTTTCCTA	2520
AAATTCATGT	CATTCTGTT	CCACAAAGTG	AGTTCCAGGA	CTTACCAAGAG	AAACCCCTGTG	2580
TTCAAATTTC	TGTGTTCAAG	GTCACCTGG	CTTACAAAGT	GAGTCCAAG	TCCGATAGGG	2640
CTACACAGAA	AAACCATATC	TCAGAAAAAA	AAAAGTTCC	AAACACACAC	ACACACACAC	2700
ACACACACAC	ACACACACAC	ACACACACAC	ACACACACAG	CGCGCCGCGG	CGATGAGGGG	2760
AAGTCGTGCC	TAAAATAAAAT	ATTTTCTGG	CCAAAGTGAA	AGCAAATCAC	TATGAAGAGG	2820
TACTCCTAGA	AAAAATAAT	ACAAACGGGC	TTTTTAATCA	TTCCACACT	GTTTTAATT	2880
AACTCTGAAT	TTAGTCTTGG	AAAAGGGGGC	GGGTGTGGGT	GAGTGGGGC	GAGCGAGCAG	2940
ACGGGCGGGC	GGGCAGGGTG	GTGGCCGGCG	GCGGTGGCAG	CGAGCACCAG	AAAACAACAA	3000
ACCCCAAGCG	GTAGAGTGT	TTAAAAATGA	GACCTAAATG	TGGTGAACG	GAGGTCGCG	3060
CCACCCCTCCT	CTTCCACTGC	TTAGATGCTC	CCTTCCCCTT	ACTGTGCTCC	CTTCCCCTAA	3120
CTGTGCCTAA	CTGTGCCTGT	TCCCTCACCC	CGCTGATTG	CCAGCGACGT	ACTTTGACTT	3180

CAAGAACGAT	TTTGCCTGTT	TTCACCGCTC	CTGTACATAC	TTTCGTTTTT	GGGTGCCCGA	3240
GTCTAGCCCG	TTCGCTATGT	TCGGGCGGGA	CGATGGGGAC	CGTTTGTGCC	ACTCGGGAGA	3300
AGTGGTGGGT	GGGTACGCTG	CTCCGTCGTG	CCTGCCTGAG	TGCCCGAAC	TGAGCTCGGG	3360
AGACCCCTCG	GAGAGACAGA	ATGAGTGAGT	GAATGTGGCG	GCCTGACG	GATCTGTATT	3420
GGTTTGTATG	GTTGATCGAG	ACCATTCGCG	GGCGACACCT	AGTGGTACCA	AGTTTCGGGA	3480
ACGCTCCAGG	CCTCTCAGGT	TGGTGACACA	GGAGAGGGAA	GTGCCGTGCG	TGAGGCGACCC	3540
AGGGTGACAG	GAGGCCGGGC	AAGCAGGCGG	GAGCGTCTCG	GAGATGGTGT	CGTGTAAAG	3600
GACGGTCTCT	AAACAAGGAGG	TCGTACAGGG	AGATGGCCAA	ACCAGACCGA	GTTGCTGTAC	3660
GCCCTTTGG	GAAAAATGCT	AGGGTTGGTG	GCAACGTTAC	TAGGTCGACC	AGAAGGCTTA	3720
AGTCCTACCC	CCCCCCCCCT	TTTTTTTTT	TTTCCTCCAG	AAGCCCTCTC	TTGTCCCCGT	3780
CACCGGGGGC	ACCGTACATC	TGAGGCCGAG	AGGACGCGAT	GGGCCCGGCT	TCCAAGCCGG	3840
TGTGGCTCGG	CCAGCTGGCG	CTTCGGGTCT	TTTTTTTTT	TTTTTTTCTCA	3900	
GAAGCCTTGT	CTGTCGCTGT	CACCGGGGGC	GCTGTACTTC	TGAGGCCGAG	AGGACGCGAT	3960
GGGCCCCCGG	TTCCAAGCGG	GTGTCGCTCG	CCCGAGCTGGA	GCTTCGGGT	TTTTTTTTT	4020
TTTTTTTTT	TTTTTTCTC	CAGAACCTT	GTCTGTCGCT	GTCACCGGGG	GCGCTGTACT	4080
TCTGAGGCCG	AGAGGACGCG	ATGGGTGCGC	TTCCAAGCCG	ATGTGGCCGG	GCCAGCTGGA	4140
GCTTCGGGTT	TTTTTTTTTC	CTCCAGAACG	CCTCTCTTGT	CCCCGTCACC	GGGGCGCTG	4200
TACTTCTGAG	GCCGAGAGGA	CGTGATGGGC	CCGGGTTCCA	GGCGGATGTC	CCCCGGTCAG	4260
CTGGAGCTT	GGATCTTTT	TTTTTTTTT	CCTCCAGAAAG	CCCTCTCTT	CCCCGTAC	4320
CGGGGGCACC	TTACATCTGA	GGGCGAGAGG	ACGTGATGGG	TCCGGCTTCC	AAGCCGATGT	4380
GGCGGGGCCA	GCTGGAGCTT	CGGGTTTTT	TTTTTCTCTC	CAGAACCCCT	CTCTTGTCC	4440
CGTCACCGGG	GGCGCTGTAC	TTCTGAGGCC	GAGAGGACGT	GATGGGCCCG	GTTCCAGGC	4500
GGATGTCGCC	CGGTCACTG	GAGCTTTGGA	TCACTTTT	TTTCCCTCTC	AGAACCCCTC	4560
TCTGTCCCC	GTCACCGGGG	GCACCGTACA	TCTGAGGCC	AGAGGACACG	ATGGGCCTGT	4620
CTTCCAAGCC	GATGTGGCCC	GGCCAGCTGG	AGCTTCGGGT	CTTTTTTTT	TTTTTCTCTC	4680
CAGAACCTT	GTCTGTCGCT	GTCAACCGGG	GCGCTGTACT	TCTGAGGCCG	AGAGGACGCG	4740
ATGGGCCGG	CTTCCAAGCC	GGTGTGGCTC	GGCCAGCTGG	AGCTTCGGGT	CTTTTTTTT	4800
TTTTTTTTT	TTCCCTCAGA	AACTTGTCT	GTGCTGTCA	CCCGGGGCGC	TTGTACTTCT	4860
GATGCCGAGA	GGACGCGATG	GGCCCGTCTT	CCAGGCCGAT	GTGGCCCGGT	CAGCTGGAGC	4920
TTTGGATCTT	TTTTTTTTT	TTTTCCTCCA	GAAGCCCTCT	CTTGTCCTCCG	TCACCGGGGG	4980
CACCTTACAT	CTGAGGCCCTA	GAGGACACGA	TGGGCCCCGG	TTCCAGGCCG	ATGTGGCCCG	5040
GTCAGCTGGA	GCTTTGGATC	TTTTTTTTT	TTTCTCTCCA	GAAGCCCTCT	TGTCCCCGTC	5100
ACCGGTGGCA	CTGTACATCT	GAGGGCGAGA	GGACATTATG	GGCCCGGCTT	CCAATCCGAT	5160
GTGGCCGGT	CAGCTGGAGC	TTGGATCTT	ATTTTTTTT	TAATTTTTTC	TTCCAGAACG	5220
CCTCTTGTCC	CTGTCACCGG	TGGCACGGTA	CATCTGAGGC	CGAGAGGACA	TTATGGGCC	5280
GGCTTCAGG	CCGATGTGGC	CCGGTCAGCT	GGAGCTTTGG	ATCTTTTTT	TTTTTTTCT	5340
TTTTCTCTC	AGAACCCCTC	TCTGTCCTG	TCACCGGGGG	CCCTGTACGT	CTGAGGCCGA	5400
GGGAAAGCTA	TGGGCGCGGT	TTCTTTCAT	TGACCTGTG	GTCTTATCAG	TTCTCCGGGT	5460
TGTCAAGGTC	GACCAGTTGT	TCCCTTGAGG	TCCGGTTCTT	TCGTTATGG	GGTCATTTTT	5520
GGGCCACCTC	CCCAAGGTATG	ACTTCAGGC	GTCGTTGCTC	GCCTGTCACT	TTCCTCCCTG	5580
TCTCTTTAT	GCTTGTGATC	TTTCTATCT	GTTCTTATTG	GACCTGGAGA	TAGGTACTGA	5640
CACGCTGTCC	TTTCCCTATT	AAACACTAAAG	GACACTATAA	AGAGAACCTT	TCGATTTAAG	5700
GCTGTTTGTG	TTGTCCAGCC	TATTCTTTT	ACTGGCTTGG	GTCTGTCGCG	GTGCTGAAG	5760
CTGTCCCCGA	GCACGCTTC	CTGCTTCCC	GGGTTGCTG	CTTGCCTGTG	CTTGCTGTGG	5820
GCAGCTGTG	ACAACCTGGG	GCTGTGACTT	TGCTGCGTGT	CAGACGTTT	TCCCAGTTTC	5880
CCCGAGGTGT	CGTTGTACACA	CCTGTCCTGG	TTGGAATGGT	GGAGCCAGCT	GTGGTTGAGG	5940
GCCACCTTAT	TTCGGCTCAC	TTTTTTTTT	TTTTTTTCTC	TTGGAGTCCC	GAACCTCCGC	6000
TCTTTCTCT	TCCCCTGTCT	TCTTCCACAT	GCCTCCCGAG	TGCATTCTCT	TTTGTTTTTT	6060
TTCTTTTTT	TTTTTTTTT	TTGGGGAGGT	GGAGAGTCCC	GAGTACTTCA	CTCCTGTCTG	6120
TGGTGTCCAA	GTGTTCATGC	CACGTGCTC	CCGAGTGCAC	TTTTTTTGT	GGCAGTCGCT	6180
CGTTGTGTC	TCTTGTGTC	TGTCTGCCG	TATCAGTAAC	TGTCTTGTCCC	CGCGTGTAG	6240
ACATTCTTAT	CTCGCTTGT	TCTCCCGATT	GCGCGTCGTT	GTCACTCTT	AGATCGATGT	6300
GGTGCTCCGG	AGTTCTCTTC	GGGCCAGGGC	CAAGCCGCCG	CAGGGAGGG	ACGGACATTC	6360
ATGGCGAATG	GCGGCCGCTC	TTCTCGTTCT	GCCAGCGGGC	CCTCGTCTCT	CCACCCCATC	6420
CGTCTGCCGG	TGGTGTGTTG	AAGGCAGGGG	TGCGGCTCTC	CGGCCCGACG	CTGCCCCGCG	6480
CGCACTTTTC	TCAGTGGGTC	CGTGTGCTCT	TGTGGATGTG	TGAGGCGCCC	GGTTGTGCC	6540
TCACGTGTTT	CACTTTGGTC	GTGTCTGCT	TGACCATGTT	CCCAGAGTCG	GTGGATGTGG	6600
CCGGTGGCGT	TGCATACCCCT	TCCCGTCTGG	TGTGTGCACT	CGCTGTTCT	TGTAAGCGTC	6660
GAGGTGCTCC	TGGAGCGTTC	CAGGTTTGTG	TCTCTAGGTG	CTGCTTCTGA	GCTGGTGGTG	6720
GCGCTCCCGA	TTCCCTGGTG	TGCCTCCGGT	GCTCCGTCTG	GCTGTGTGCC	TTCCCGTTTG	6780
TGTCTGAGAA	GCCCGTGTAGA	GGGGGGTCGA	GGAGAGAAGG	AGGGGCAAGA	CCCCCCTTCT	6840
TCGTCGGGTG	AGGGCGCCAC	CCCGCGACTA	GTACGCTGT	GCCTAGGGCT	GGTGCTGAGC	6900
GGTCGCGGCT	GGGGTTGGAA	AGTTTCTCGA	GAGACTCATT	GCTTCCCGT	GGGGAGCTTT	6960
GAGAGGCCTG	GCTTTGGGGG	GGGACCGGTT	GCAGGGTCTC	CCCTGTCCGC	GGATGCTCAG	7020
AATGCCCTTG	GAAGAGAACCC	TTCCCTGTTGC	CGCAGACCCC	CCCGCGCGGT	CGCCCGCGTG	7080

TTGGTCTTCT	GGTTCCCTG	TGTGCTCGTC	GCATGCATCC	TCTCTCGGTG	GCCGGGGCTC	7140
GTCGGGGTTT	TGGGTCCGTC	CCGCCCTCAG	TGAGAAAGTT	TCCCTCTCTA	GCTATCTTCC	7200
GGAAAGGGTG	CGGGCTTCTT	ACGGTCTCGA	GGGGTCTCTC	CCGAATGGTC	CCCTGGAGGG	7260
CTCGCCCCCT	GACCGCCTCC	CGCGCGCGA	GGTTTGCTC	TCTCGTCTAC	CGCGGCCCGC	7320
GGCCTCCCCG	CTCCGAGTT	GGGGAGGGAT	CACGCCGGGC	AGAGCCTGTC	TGTCGTCCCTG	7380
CCGTTGCTGC	GGAGCATGTG	GCTCGGCTTG	TGTGGTTGGT	GGCTGGGAG	AGGGCTCCGT	7440
GCACACCCCC	GCGTGCCTG	ACTTCCCTCC	CCTCCTGAGG	GCGCCTGTC	GGACGGGGTG	7500
TGGTAGGCG	ACGGTGGGCT	CCCGGGTCCC	CACCCGTCTT	CCCGTGCCTC	ACCCGTGCCT	7560
TCCGTCCGCT	GCGTCCCTCT	CGCTCGCTC	CACGACTTTG	GCGCTCCCG	CGACGGCGGC	7620
CTGCGCCGCG	CGTGGTGCCT	GCTGTGTGCT	TCTCGGGCTG	TGTGGTTGTG	TCGCCTCGCC	7680
CCCCCTTCC	CGCGGCAGCG	TTCCCACGGC	TGGCGAAATC	GCGGGAGTCC	TCCTTCCCT	7740
CCTCGGGGTC	GAGAGGGTCC	GTGTCTGGCG	TTGATTGATC	TCGCTCTCGG	GGACGGGGAC	7800
GTTCTGTGGG	AGAACGGCTG	TTGGCCCGCT	CCGGCGCGAC	TCGGACGTG	GGGACCCACT	7860
GCCGCTCGGG	GGTCTTCGCT	GGTAGGCATC	GGTGTCTCGG	CATCGGTCTC	TCTCTCGTGT	7920
CGGTGTCGCC	TCCCTGGGCT	CCCGGGGGGC	CGTCGTGTT	CGGGTCGGCT	CGGCGCTGCA	7980
GGTGTGGTGG	GACTGCTCAG	GGGAGTGGTG	CAGTGTGATT	CCCGCCGGTT	TTGCCTCGCG	8040
TGCCCTGACC	GGTCCGACGC	CCGAGCGGTC	TCTCGGTCCC	TTGTGAGGAC	CCCCTCCGG	8100
GAGGGGCCCG	TTTCGGCCGC	CCTTGCCTGC	GTGCCCGGCC	TCGTTCTGC	TGTGTGTTTC	8160
CCCCCTCCCC	GCTCGCCGCA	GCCGGTCTTT	TTTCCTCTCT	CCCCCCCTCT	CCTCTGACTG	8220
ACCCGTGGCC	GTGCTGTCGG	ACCCCCCGCA	TGGGGGCGGC	CGGGCACGTA	CGCGTCCGGG	8280
CGGTACCCGG	GGTCTTGGGG	GGGGGGCGAG	GGGTAAGAAA	TCGCGTCTCGG	GGGGCGGGAG	8340
GAGCTGTGGT	TTGGAGGGCG	TCCCGGCCCC	GGGGCGCTGG	CGGTGCTTGTG	CGCGTCTCTG	8400
GAGAGGGCTG	CGTGCAGGGG	GAAAAGGTTG	CCCCCGAGG	GCAAAGGAA	AGAGGCTAGC	8460
AGTGGTCATT	GTCCCGACGG	TGTGGTGGTC	TGTGGCCGA	GGTGCCTGTC	GGGGGCTCGT	8520
CCGGCCCTGT	CGTCCGTCGG	GAAGGCGCTG	GTGCCCCGCT	GCCGGAGTGC	CGAGGTGGGT	8580
ACCCGTGGCG	TGGGATTAAC	CCCGCGCGCG	TGTCCCGGTG	TGGCGGTGGG	GGCTCCGGTC	8640
GATGTCTACC	TCCCTCTCCC	CGAGGTCTCA	GGCCTTCTCC	CGCGGGCTC	TCGGCCCTCC	8700
CCTCGTTCCCT	CCCTCTCGCG	GGGTTCAAGT	CGCTCGTCGA	CCTCCCTCC	TCGTCCTTC	8760
CATCTCTCGC	GCAATGGCGC	CGCCCGAGTT	CACGGTGGGT	TCGTCCTCCG	CCTCCGCTTC	8820
TCGCGGGGG	CTGGCCGCTG	TCCGGTCTCT	CCTGCCGAC	CCCCGTTGGC	GTGGTCTTCT	8880
CTCGCCGGCT	TCGCGGACTC	CTGGCTTCGC	CCGGAGGGTC	AGGGGCTTC	CCGGTCCCCC	8940
GACGTTGCGC	CTCGCTGCTG	TGTGCTTGGG	GGGGGCGGCC	TGCGGCTCT	CCCCGCCCCG	9000
GAGCCCCCTG	CGCACCCGCC	GGTGTGCGGT	TTCGCGCCGC	GGTCAGTTGG	CCCCCTGGCGT	9060
TGTGTGCGGT	CGGGAGCGTG	TCCGCTCGC	GGCGGCTAGA	CGCGGGGTGTC	GCCGGGCTCC	9120
GACGGGTGGC	CTATCCAGGG	CTCGCCCCCG	CCGACCCCCG	CCTGCCGTC	CCGGTGGTGG	9180
TCGTTGGTGT	GGGGAGTGAA	TGGTGCCTACC	GGTCATTCCC	TCCCGCGTGG	TTTGACTGTC	9240
TCGCCGGTGT	CGCGCTCTC	TTTCCGCAA	CCCCCACGCC	AACCCACAC	CCTGCTCTCC	9300
CGGCCCCGGT	CGGTGACGCT	TCCGGCTCTC	CCGATGCCA	GGGGTTCGGG	ATTGTCGCG	9360
GGGACGGAGG	GGAGAGCGGG	TAAGAGAGGT	GTGGAGAGC	TGTCCCGGGG	CGACGCTCGG	9420
GTTGGCTTTG	CCCGCGTGTG	GTGCTCGCG	ACGGGTTTG	TCGGACCCCG	ACGGGGTTCGG	9480
TCCGGCCGCA	TGCACTCTC	CGTCCCGCG	GAGGGCCCCG	CGGGCTCAC	CCCCGTTTGT	9540
CCTCCCGCGA	GGCTCTCCG	CGGCCGCCG	TCTCCCTCT	CTCTCGCGCT	CTCTGTCCCG	9600
CCTGGTCTG	TCCCACCCCC	GACGCTCCGC	TCGCGCTTCC	TTACCTGGTT	GATCCTGCA	9660
GGTAGCATAT	GCTTGTCTCA	AAGATTAAGC	CATGCATGTC	TAAGTACGCA	CGGCCGGTAC	9720
AGTGAAGACTG	CGAATGGCTC	ATTAATCAG	TTATGGTTCC	TTTGGTCGCT	CGCTCCTCTC	9780
CTACTTGGAT	AACTGTGGTA	ATTCTAGAGC	TAATACATGC	CGACGGGC	TGACCCCCCT	9840
TCCCGGGGGG	GGATGCGTGC	ATTATCAGA	TCAAACACAA	CCCGGGTAGC	TCCCTCCCGG	9900
CTCCGGCCGG	GGGTGCGGGCG	CCGGCGGCTT	GGTACTCTA	GATAACCTCG	GGCCGATCGC	9960
ACGCCCGCCCG	TGGCGGCCGAC	GACCCATTG	AACGCTGTC	CTATCAACTT	TCGATGGTAG	10020
TCGCGGTGCG	TACCATGGTG	ACCACGGGTG	ACGGGAAATC	AGGGTTCGAT	TCCGGAGAGG	10080
GAGCCTGAGA	AACGGCTACC	ACATCCAAGG	AAAGCAGCAG	CGCGC	GGAAATTC	10140
CGACCCGGGG	AGGTAGTGAC	GAAAAATAAC	AATACAGGAC	TCTTCGAGG	CCCTGTAAATT	10200
GGAATGAGTC	CACTTTAAAT	CCTTTAACGA	GGATCCATTG	GAGGGCAAGT	CTGGTGCCAG	10260
CAGCCGGGT	AATTCCAGCT	CCAATAGCGT	ATATTAAGT	TGCTGCAGTT	AAAAAGCTCG	10320
TAGTTGGATC	TTGGGAGCGG	CGGGCGGTC	CGCCCGCGAGG	CGAGTCACCG	CCCGTCCCCG	10380
CCCCTTGCC	CTCGCGGCC	CCTCGATGCT	CTTAGCTGAG	TGTCCCGCGG	GGCCCGAAGC	10440
GTTTACTTTG	AAAAAAATTAG	AGTGTCAAA	GCAGGCCCGA	GCCGCCCTGGA	TACCGCAGCT	10500
AGGAATAATG	GAATAGGAC	GCGGTCTAT	TTTGTGGTT	TTCGGAAC	AGGCCATGAT	10560
TAAGAGGGAC	GGCCGGGGGG	ATTCGTATTG	GGCCGCTAGA	GGTGAAC	TTGGACCCGGC	10620
GCAAGACGGA	CCAGAGCGAA	AGCATTCG	AAGAATGTT	TCATTAATCA	AGAACGAAAG	10680
TCGGAGGTT	GAAGACGATC	AGATACCGTC	GTAGTTCCGA	CCATAAACGA	TGCGCACTGG	10740
CGATCGGGCG	CGCTTATTCC	CATGACCCGC	CGGGCAGCTT	CCGGGAAACC	AAAGTCTTG	10800
GGTTCCGGGG	GGAGTATGGT	TGCAAAGCTG	AAACTAAAG	GAATTGACGG	AAGGGCACCA	10860
CCAGGAGTGG	GCCTGCGGGCT	TAATTGACT	CAACACGGGA	AACCTCACCC	GGCCCGGACA	10920
CGGACAGGAT	TGACAGATTG	ATAGCTCTT	CTCGATTCCG	TGGGTGGTGG	TGCATGGCCG	10980

TTCTTAGTTG	GTGGAGCGAT	TTGTCTGGTT	AATTCCGATA	ACGAACGAGA	CTCTGGCATG	11040
CTAACTAGTT	ACCGCACCCC	CGAGCGCTCG	CGCTCCCCCA	ACTTCTTAGA	GGGACAAGTG	11100
GCGTCAGCC	ACCCGAGATT	GAGCAATAAC	AGGTCTGTGA	TGCCCTTAGA	TGTCCGGGGC	11160
TGCACCGCG	CTACACTGAC	TGGCTCAGCG	TGTGCCTTAC	CTGCGCCGGC	AGGCAGCGGGT	11220
AACCCGTTGA	ACCCCATTCG	TGATGGGGAT	CGGGGATTGC	AATTATTCCC	CATGAACGAG	11280
GAATTCCCAG	TAAGTGCAGG	TCATAAGCTT	CGCTTGTATTA	AGTCCCTGCC	CTTTGTACAC	11340
ACCGCCCGTC	GCTACTACCG	ATTGGATGGT	TTAGTGAGGC	CCTCGGATCG	GCCCCGCCGG	11400
GGTCGGGCCA	CGGCCCTGGC	GGAGCGCTGA	GAAGACGGTC	GAACCTGACT	ATCTAGAGGA	11460
AGTAAAAGTC	GTAAACAAGGT	TTCCGTAGGT	GAACCTGCGG	AAGGATCATT	AAACGGGAGA	11520
CTGTGGAGGA	GCGCGGGCGT	GGCCCGCTCT	CCCCGTCTTG	TGTGTGTCT	CGCCGGGAGG	11580
CGCGTGCCTC	CCGGGTCCCG	TCGCCCCGCGT	GTGGAGCGAG	GTGTCTGGAG	TGAGGTGAGA	11640
GAAGGGGTGG	GTGGGGTCGG	TCTGGGTCCG	TCTGGGACCG	CCTCGGATTT	CCCCTCCCCC	11700
TCCCCCTCTCC	CTCGTCCGGC	TCTGACCTCG	CCACCCCTAC	CGGGCCGGCG	CTGCTCGCGG	11760
GCGCTCTGCC	TCTTTCCCGT	CCGGCTCTTC	CGTGTCTACCG	AGGGCGGTGA	CGTCGTTACG	11820
GGTTTTGAC	CCGTCCCGGG	GGCGTTCGGT	CGTCGGGGCG	CGCGCTTGC	TCTCCCGGCA	11880
CCCATCCCCG	CCGCCTGCTCT	GGCTTTCTA	CGTGGCTGG	GGCGGGTGTG	GCGTGTGGGG	11940
GGATGTGAGT	GTGCGGTGTG	GGCTCGCCCG	TCCCGATGCC	ACGCTTTCT	GGCCTCGCGT	12000
GTCCTCCCCG	CTCCGTCTCC	GGGTACCTAG	CTGTCGCGTT	CGGGCGCGGA	GGTTTAAGGA	12060
CCCCGGGGGG	GTCGCCCTGC	CGCCCCCAGG	GTGGGGGGGC	GGTGGGGCCC	GTAGGGAAAGT	12120
CGGTCTTCG	GGCGGCTCTC	CCTCAGACTC	CATGACCCTC	CTCCCCCCGC	TGCCGCCGTT	12180
CCCGAGGCAG	CGGTCGTGTG	GGGGGGTGGA	TGTCCTGGAGC	CCCTCTGGGC	GCGTGTGGGG	12240
CCCGACCCG	GCCGCCGGCT	TGCCCCGATT	CCGCGGGTGC	GTCTGTCGG	TGCCGGTCTGT	12300
GGGTTCCCGT	GTGTTTCCCG	TGTTTTTCCC	CTCCCCGACCC	TTTTTTTTTC	CTCCCCCCCCA	12360
CACGTCTC	GTTCGTTTCC	TGTCGGGGCG	CTCTGAGCTA	CCCTCGGTC	CATCTGTTCT	12420
CCTCTCTCTC	CGGGGAGAGG	AGGGCGGTGG	TCGTTGGGGG	ACTGTGCCGT	CGTCAGCAC	12480
CGTGAGTTCG	CTCACACCCG	AAATACCGAT	ACGACTCTTA	CGGGTGGATC	ACTCGGCTCG	12540
TGCGTCGATG	AAGAACGAG	CTAGCTGCGA	GAATTAATGT	GAATTGCAAG	ACACATTGAT	12600
CATCGACACT	TCGAACGAC	TTGCGCCCCC	GGGTTCTCC	CGGGGCTACG	CCTGCTGAG	12660
CGTCGGTGA	CGATCAATCG	CGTCACCCGC	TGCGGTGGGT	GCTGCGCGC	TGGGAGTTTG	12720
CTCGCAGGGC	CAACCCCCCA	ACCCGGGTGCG	GGCCCTCCGT	CTCCCGAAGT	TCAGACGTGT	12780
GGGCGGGTGT	CGGTGTGGCG	CGCGCCGGCG	CGTCGCGGAG	CCTGGTCTCC	CCCGCGCATC	12840
CGCGCTCGCG	GCTCTTCTCC	GCTCCCGCGT	TCCCGCCCTC	CGCCCGTCAC	CCCGGTCTCG	12900
GCCTCGCTC	GGCGCTCTCC	GGACCGCTGC	CTCACCGTC	TTTCTCGGTC	CGTGCCCCCG	12960
TGGGAAACCA	CCGCGCCCGCC	GTGGCGCCCG	GGGGTGGGGCG	CGTCCGCGATC	TGCTCTGGTC	13020
GAGGTGGCG	GTGAGGGGTG	TGCGTGCGCC	GAGGTGGTGG	TCGGTCCCCCT	CGGGCCGCCGG	13080
GGTTGTCGGG	GTGGCGGTGC	ACGAGGGCG	GTGGTGCGCC	TGCGGTGGTT	GTCTGTTGTT	13140
GTTTGGGTCT	TGCGCTGGGG	GAGGCGGGGT	CGACCGCTCG	CGGGGTTGGC	CGGGTCGCC	13200
GGCGCCGCG	ACCCCTCCGG	TTGTGTGGAG	GGAGAGCGAG	GGCGAGAACG	GAGAGAGGTG	13260
GTATCCCCGG	TGGCGTTGCG	AGGGAGGGTT	TGGCGTCCC	CGTCCGTC	TCCCTCCCTC	13320
CCTCGGTGGG	CGCCTTCGGC	CCGCACGCCG	CCGCTAGGGG	CGGTGGGGC	CCGTGGCCCC	13380
CGTGGCTCTT	CTTCGTCCTC	GCTTCCTCT	CACCCGGGTC	GTACCCGCTC	CGGCGCCGGC	13440
CCCGGGGACG	CCGGCGGCGTC	CGTCGCGCGA	TGCGAGTCAC	CCCCGGGTGT	TGCGAGTTCG	13500
GGGAGGGAGA	GGGCCTCGCT	GACCCGTTGC	GTCCCGGCTT	CCCTGGGGGG	GACCCGGGGT	13560
CTGTGGGCTG	TGCGTCCCGG	GGGTTGCGTG	TGAGTAAGAT	CCTCCACCCC	CGCCGCCCTC	13620
CCCTCCCGCC	GGCCTCTCGG	GGACCCCTG	AGACGGTTCG	CGGGCTCGTC	CTCCCGTGCC	13680
GCCGGGTGCC	GTCTCTTCC	CGCCCGCCTC	CTCGCTCTC	TCTTCCCGCG	GCTGGGCGCG	13740
TGTCCCCCT	TTCTGACCGC	GACCTCAGAT	CAGACGTGGC	GACCCGCTGA	ATTAAAGCAT	13800
ATTAGTCAGC	GGAGGAAAAG	AAACTAACCA	GGATTCCCTC	AGTAACGGCG	AGTGAACAGG	13860
GAAGAGCCCA	GCGCGAACATC	CCCGCCGCG	GTGCGGGCT	GGGAAATGTG	CGTACGGAA	13920
GACCCACTC	CCGGCGCCCG	TCGTGGGGG	CCCAAGTCCT	TCTGATCGAG	CCCCAGCCCC	13980
TGGACGGTGT	GAGGGCGGTG	GCAGGGCGCG	CGCGCCGGCG	TCGGGTCTTC	CGGGAGTCGG	14040
GTTGCTGGG	AATGCGACCC	AAAGCGGGTG	GTAAACTCCA	TCTAAGGCTA	AATACCGGCA	14100
CGAGACCGAT	AGTCAACAAAG	TACCGTAAGG	GAAAGTTGAA	AAGAACCTTG	AAGAGAGAGT	14160
TCAAGAGGGC	GTGAAACCGT	TAAGAGGTAA	ACGGGTGGGG	TCCGCGCAGT	CCGCCCGGGAG	14220
GATTCAACCC	GGCGCGCGC	GTCCGCCCGT	GCCCGGTGGT	CCCGGCGGAT	CTTCCCCTC	14280
CCCCGTTCCCT	CCCGACCCCT	CCACCCGCGC	GTCTTCTCC	TCTTCTCTCC	CGCGTCCGGC	14340
GCCTCCGGCG	GGGGGCGCGG	GGGGTGGGTG	GGTGGTGGCG	CGCGGGCGGG	GCCGGGGGTG	14400
GGGTCGCGG	GGGACCGCCC	CCGGCCGGCG	ACCGGCCGCC	GCCGGCGC	CTTCCACCGT	14460
GGCGGTGCGG	CGCGAACCGGC	TCCGGGACGG	CCGGGAAGGC	CCGGTGGGGGA	AGGTGGCTCG	14520
GGGGGGCGCG	CGCGTCTCAG	GGCGCGCGGA	ACCACCTCAC	CCCGAGTGTT	ACAGCCCTCC	14580
GGCGCGCTT	TCGCGCAATC	CCGGGCCGA	GGAAGCCAGA	TACCCGTC	CGCGTCTCC	14640
CTCTCCCCCC	GTCCGCTCTC	CGGGCGGGCG	TGGGGTGGG	GGCCGGGCCG	CCCCTCCCCAC	14700
GGCGCGACCG	CTCTCCCAC	CCCTCTCGC	GCCTCTCTCG	GGGCCCGGTG	GGGGCGGGGG	14760
CGGACTGTCC	CCAGTGCAGCC	CCGGGCGTCG	TCGCGCCGTC	GGGTCCCAGGG	GGGACCGTCG	14820
GTCACCGCTC	TCCCGACGAA	GCCGAGCGCA	CGGGGTGCGC	GGCGATGTCG	GCTACCCACC	14880

CGACCCGTCT	TGAAACACGG	ACCAAGGAGT	CTAACCGCGT	CGCGAGTCAG	GGGCTCGTCC	14940
GAAAGCCGCC	GTGGCGCAAT	GAAGGTGAAG	GGCCCCGCC	GGGGGCCCGA	GGTGGGATCC	15000
CGAGGCCCTCT	CCAGTCGGC	GAGGGCGCAC	CACCGGCCC	TCTCGCCCG	CGCGCCGGGG	15060
AGGTGGAGCA	CGAGCGTACG	CGTTAGGACC	CGAAAGATGG	TGAACATATGC	TTGGGCAGGG	15120
CGAAGCCAGA	GGAAACTCTG	GTGGAGGTCC	GTAGCGGTCC	TGACGTGCAA	ATCGGTGTC	15180
CGACCTGGGT	ATAGGGCGA	AAGACTAATC	GAACCATCTA	GTAGCTGGTT	CCCTCCGAAG	15240
TTTCCCTCAG	GATAGCTGGC	GCTCTCGCTC	CCGACGTACG	CAGTTTATC	CGGTAAAGCG	15300
AATGATTAGA	GGTCTTGGGG	CCGAAACGAT	CTCAACCTAT	TCTCAAACCTT	AAATGGGTA	15360
AGAAGCCCGG	CTCGCTGGCG	TGGAGCCGGG	CGTGAATGC	GAGTGCCTAG	TGGGCCACTT	15420
TTGGTAAGCA	GAACGGCGC	TGCGGGATGA	ACCGAACGCC	GGGTTAACGC	GCCCGATGCC	15480
GACGCTCATC	AGACCCCCAGA	AAAGGTGTTG	GTGATATAG	ACAGCAGGAC	GGTGGCCATG	15540
GAAGTCGGAA	TCCGCTAAGG	AGTGTGTAAC	AACTCACCTG	CCGAATCAAC	TAGCCCTGAA	15600
AATGGATGGC	GCTGGAGCGT	CGGGCCCATA	CCCGGGCGTC	GCCGCACTCG	GAACGGAACG	15660
GGACGGGAGC	GGCCGGCGGT	GCGCGTCTCT	CGGGGTCGGG	GGTGCCTGGC	GGGGGCCCGT	15720
CCCCCGCCTC	CCCTCCGCGC	GCCGGGTTCG	CCCCCGCGGC	GTGGGGCCCC	GCGGAGCCTA	15780
CGCCGCGACG	AGTAGGAGGG	CCGCTGCCGT	GAGCCTTGA	GCCTAGGGCG	GGGGCCCGGG	15840
TGGAGCCGCC	GCAGGTGCAG	ATCTTGGTGG	TAGTAGCAAA	TATTCAAACG	AGAACTTTGA	15900
AGGCCGAAGT	GGAGAAGGGT	TCCATGTGAA	CAGCAGTGTGA	ACATGGGTCA	GTCGGTCCTG	15960
AGAGATGGGC	GAGTGCCGTT	CCGAAGGGAC	GGGCATGGC	CTCCGTTGCC	CTCGGCCGAT	16020
CGAAAGGGAG	TCGGGTTCA	ATCCCCGAAT	CCGGAGTGGC	GGAGATGGGC	GCCGCGAGGC	16080
CAGTCCGGTA	ACCGCACCGA	TCCCGGAGAA	GCCGGCGGGG	GCCCTCGGGG	AGAGTTCTCT	16140
TTTCTTGTG	AAAGGCAGGG	CGCCCTGGAA	TGGGTTCGCC	CCGAGAGAGG	GGCCCGTGCC	16200
TTGGAAAGCG	TCGGGGTTCC	GGCGGGTCC	GGTGAGCTCT	CGCTGGCCCT	TGAAAATCCG	16260
GGGGAGAGGG	TGTAATCTC	GCGCCGGGCC	GTACCCATAT	CCGCAGCAGG	TCTCAAGGGT	16320
GAACAGCCTC	TGGCATGTTG	GAACAATGTA	GGTAAGGGAA	GTGGCAAGC	CGGATCCGTA	16380
ACTTCGGGAT	AAGGATTGGC	TCTAAGGGCT	GGGTGGTGC	GGCTGGGGCG	CGAAGCGGGG	16440
CTGGGCGCGC	GCCCGGGCTG	GACGAGGCGC	CGCCGCCCTC	TCCCACGTCC	GGGGAGACCC	16500
CCCGTCCTT	CCGCCCGGGC	CCGCCCTCCC	CTCTTCCCCG	CGGGGCCCG	TCGTCCCCCG	16560
CGTCGTCGCC	ACCTCTCTTC	CCCCCTCCCT	CTTCCCGTGC	GGGGGCCGGG	CGGGGGTCCG	16620
CGCGCGCGC	GGGCTCGGGG	GCGGCGGGTC	CAACCCCGCG	GGGGTCCCGG	AGCGGGAGGA	16680
ACCAGGGTC	CCCGGTTGGGG	CGGGGGGGCC	GGACACTCGG	GGGGCCGGCG	GGGGCGGGGA	16740
CTCTGGACG	GAGGGGGGGC	CTTCCCCGTG	ATCGCCTCAG	CTGGGGCGGG	CGTCGCGGCC	16800
GCTCCGGGG	AGCCCCGGCG	GTGCGGGCG	GGGTCCCCCTC	CCCGCGGGGC	CTCGCTCCAC	16860
CCCCCCATCG	CCTCTCCCGA	GGTGCGTGGC	GGGGGCGGGC	GGGCGTGTCC	CGCGCGTGTG	16920
GGGGGAACCT	CCCGCGTCGGT	GTTCCCCCGC	GGGGTCCGCC	CCCCGGGCCG	CGGTTTTCCG	16980
CGCGCGCC	CCGCCTCGGC	CGGCGCCTAG	CAGCGACTT	AGAACTGGTG	CGGACCAGGG	17040
GAATCCGACT	GTTAATTAA	AACAAAGCAT	CGCGAAGGCC	CGCGCGGGG	GTTGACGCGA	17100
TGTGATTCT	GCCCAGTGCT	CTGAATGTCA	AAAGTGAAGAA	ATTCAATGAA	GCGCGGGTAA	17160
ACGGCGGGAG	TAACTATGAC	TCTCTTAAGG	TAGCCAAATG	CCTCGTCATC	TAATTAGTGA	17220
CGGCCATGAA	TGGATGAAACG	AGATTCCAC	TGTCCCTAC	TACTATCCAG	CGAAACCACAA	17280
GCCAAGGGAA	CGGGCTTGGC	GGAAATCAGCG	GGGAAAGAAC	ACCTCTTGA	GCTTGACTCT	17340
AGTCTGGCAC	GGTGAAGAGA	CATGAGAGGT	GTAGAATAAG	TGGGAGGCC	CCGGCGCCCG	17400
GCCCCGTCCT	CGCGTCGGGG	TCGGGGCACG	CCGGCCTCGC	GGGCCGCCGG	TGAAATACCA	17460
CTACTCTCAT	CGTTTTTCA	CTGACCCGGT	GAGGCGGGGG	GGCGAGCCCC	GAGGGGCTCT	17520
CGCTTCTGGC	GCCAAGCGTC	CGTCCCGCGC	GTGCGGGCGG	GGCGCACCCG	CTCCGGGGAC	17580
AGTGCCAGGT	GGGGAGTTG	ACTGGGCGG	TACACCTGTC	AAACGGTAAC	GCAGGTGTCC	17640
TAAGGCAGC	TCAGGGAGGA	CAGAAACCTC	CCGTGGAGCA	GAAGGGCAA	AGCTCGCTTG	17700
ATCTTGATTT	TCAGTACGAA	TACAGACCGT	GAAAGCGGGG	CCTCACGATC	CTTCTGACCT	17760
TTTGGGTTT	AAGCAGGAGG	TGTCAAAAAA	GTACCGACAG	GGATAACTGG	TGTGTGGCGG	17820
CCAAGCGTC	ATAGCGACGT	CGCTTTTGA	TCCTTCGATG	TCGGCTCTTC	CTATCATTG	17880
GAAGCAGAAT	TCACCAAGCG	TTGGGATTGTT	CACCCAACTA	TAGGGAACGT	GAGCTGGGTT	17940
TAGACCGTCG	TGAGACAGGT	TAGTTTAC	CTACTGTGTA	TGTGTGTGTT	CCATGGTAAT	18000
CCTGCTCACT	ACCGAGAGGAA	CCGCAGGTT	AGACATTGCG	TGTATGTGCT	TGGCTGAGGA	18060
GCCAATGGGG	CGAAGCTACC	ATCTGTGGGA	TTATGACTGA	ACGCCTCTAA	GTCAGAATCC	18120
GCCCAAGCGG	AACGATACGG	CAGCGCCGAA	GGAGCCTCGG	TTGGCCCCGG	ATAGCCGGGT	18180
CCCCGTCCTG	CCCGCTCGGC	GGGGTCCCCG	CGTCGCCCG	CGGCGGCCGCG	GGGTCTCCCG	18240
CCGCCGGCG	TCGGGACCCG	GGTCCGGTGC	GGAGAGCCGT	TCGTCTTGGG	AAACGGGGTG	18300
CGGCCGGAAA	GGGGGCCCGC	CTCTCGCCG	TCACGTTGAA	CGCACGTTCG	TGTGGAACCT	18360
GGCGCTAAAC	CATTCTGAGA	CGACCTGCTT	CTGGGTCGGG	GTGGTGTACG	TAGCAGAGCA	18420
GCTCCCTCGC	TGCGATCTAT	TGAAAGTCAG	CCCTCGACAC	AAGGGTTTGT	CTCTGCGGGC	18480
TTTCCCTCGC	CACGCCCGCT	CGCTCGCACG	CGACCGTGTG	GCCGCCCGGG	CGTCACGGGG	18540
CGGGTGCCT	CGGCCCCCGC	GCGGTTGCC	GAACGACCGT	GTGGTGGTTG	GGGGGGGGAT	18600
CGTCTCTCC	TCCGTCCTCC	GAGGACGGTT	CGTTTCTCT	TCCCTTCCG	TCGCTCTCCT	18660
TGGGTGTGGG	AGCCTCGTGC	CGTCGCGACC	GCGGCCTGCC	GTCGCGCTGCC	GCCGCAGCCC	18720
CTTGCCCTCC	GGCCTTGGCC	AAGCGGGAGG	GCGGAGGAGG	GGGATCGGCG	CGGGCGGGCGA	18780

CCGGCGCGCG	GTGACGCACG	GTGGGATCCC	CATCCCTCGGC	GCGTCCTCG	GGGACGGCCG	18840
GTTGGAGGGG	CGGGAGGGT	TTTCCCGTG	AACGCCCGT	TCGGCGCCAG	GCCTCTGGCG	18900
GCCGGGGGGG	CGCTCTCTCC	GCCCCAGCAT	CCCCACTCCC	GCCCCCTCCTC	TTCGCGGCC	18960
GCGGCGGCGA	CGTGCCTACG	AGGGGAGGAT	GTCGCGGTGT	GGAGGCGGAG	AGGGTCCGGC	19020
GCGGCCTC	TTCCATTTT	TCCCCCCCCA	CTTCGGAGGT	CGACCAGTAC	TCCGGGCGAC	19080
ACTTTGTTT	TTTTTTTCC	CCCGATGCTG	GAGGTCGACC	AGATGTCCGA	AAAGTCCCC	19140
CCCCCCCCC	CCCCCGGGCG	CGGAGCGGCG	GGGCCACTCT	GGACTCTTT	TTTTTTTTT	19200
TTTTTTTTT	TTAAATTCT	GGAACCTTTA	GGTCGACCAG	TTGTCGCTCT	TTTACTCCTT	19260
CATATAGGTC	GACCAGTACT	CCGGGTGGTA	CTTGTCTTT	TTCTGAAAT	CCCAGAGGTC	19320
GACCAGATAT	CCGAAAGTCC	TCTCTTCCC	TTTACTCTTC	CCCACAGCGA	TTCTCTTTT	19380
TTTTTTTTT	TTTGGTGTGC	CTCTTTTGA	CTTATATACA	TGAAATAGT	GTGTACGTTT	19440
ATATACTTAT	AGGAGGAGGT	CGACCAGTC	TCCGGGCGAC	ACTTTGTTT	TTTTTTTTT	19500
TCCACCGATG	ATGGAGGTCG	ACCAGATGTC	CGAAAGTGTG	CCGTCCTCCCC	CCTCCCCCCC	19560
CCCGACGCG	CGGGGCTCAC	TCTGGACTCT	TTTTTTTTT	TTTTTTTTT	TTAAATTTC	19620
TGGAACCTTA	AGGTCGACCA	GTTGTCGTC	TTTCACTCAT	TCATATAGGT	CGACCGGTGG	19680
TACTTTGTC	TTTCTGAAA	ATCGCAGAGG	TCGACCAGAT	GTCAGAAAGT	CTGGTGGTCG	19740
ATAAAATTATC	TGATCTAGAT	TTGTTTTCT	TTTTCAGT	TTTGTGTTGT	TTTGTGTTGT	19800
TTTGTGTTGT	TTTGTGTTGT	TTTGTGTTGT	TTTGTGTTGT	TTTGTGTTGT	TTTGTGTTGT	19860
TTTGTGTTGT	TTTGTGTTGT	TTTGTGTTGG	TTTGTGTTGG	TTTGTGTTGG	TTTGTGTTGG	19920
TTTGTGTTGG	TTTGTGTTGT	TTTGTGTTGT	TTTGTGTTGT	TTTGTGTTGT	TTTGTGTTGT	19980
TTGTTGCTG	TTGTTTGTG	TTTGCCTGGT	CGAACAGTTG	TCCCTAACCG	AGTTTTTTTG	20040
TACACAAACA	TGCACTTTT	TTAAAAATAAA	TTTTAAAT	AAATGCGAAA	ATCGACCAAT	20100
TATCCCTTC	CTTCTCTCTC	TTTTTTAAAA	ATTTCCTTTC	TGTGTGTTGT	TGTGTGTTGT	20160
TGTGTGTTG	TGCGTGTG	TGTGTGTTGT	CGTGCAGCGT	GCGCGCGCTC	TTTTTATAAA	20220
TACTTATAAT	AATAGGTGCG	CGGGTGGTGG	TAGCTTCCC	GACTCCAGAG	GCAGAGGCAG	20280
GCAGACTTCT	GAGTCGAGG	CCAGCCTGGT	CTACAGAGGA	ACCCGTCTC	AAAAATGAA	20340
AATAAAATACA	TACATACATA	CATACATACA	TACATACATA	CATACATACA	TACATATGAG	20400
GTTGACCACT	TGTCAATCCT	TTAGAATTTT	TTTTTTAATT	AATGTGATAG	AGAGATAGAT	20460
AATAGATAGA	TGGATAGAGT	GATACAAATA	TAGGTTTTT	TTTCAGTAA	TATGAGGTTG	20520
ATTAACCACT	TTTCCCTTT	TAGGTTTTT	TTTTTTCCC	CTGTCATGT	GGTTGCTGG	20580
ATTTGAACCTC	AGGACCTGG	CAGGTCAACT	GGAAAACGTG	TTTCTATAT	ATATAAAATAG	20640
TGGCTGCT	GCTGTTGTT	TGTTGCTTGT	CTTGCTTGCT	TGCTTGTGTT	CTTGCTTGT	20700
TGCTTTTTT	TTTCTTCTGA	GACAGTATT	CTCTGTGTA	CCTGGTGC	TTGAAACTCAC	20760
TCTGTAGACC	AGCCTGGCCT	CAATCGAACT	CAGAAATCCT	CCTGCCTCTT	GTCTACCTCC	20820
CAATTGGA	GTAAAGGTGT	GCTACACCAC	TGCCTGGCAT	TATTATCATT	ATCATTATTA	20880
ATTTTATTAT	TAGACAGAAC	GAAATCAACT	AGTTGGTCCT	TTTCGTTAA	TTCATTTGAA	20940
ATTAGTTGGA	CCAATTAGTT	GGCTGGTTG	GGAGGTTCT	TTTGTGTTCG	TTTGTGTTGT	21000
TTGTGGGCT	GGGGATCAGG	TATCTCAACG	GAATGCATGA	AGGTTAAGGT	GAGATGGCTC	21060
GATTTTGTA	AAAGATTACT	TTCTTAGTCT	GAGGAAAAAA	TTAAATAATA	TTGGGCTACG	21120
TTTCATTGCT	TCATTCTAT	TTCTCTTCT	TTCTTCTT	CTTCAGATA	AGGAGGTCGG	21180
CCAGCTTCTC	CTGCTCTCTG	GAAGATGTAG	GCATTGCTT	CCCTTCTAT	CCGTGCAGGG	21240
GATGTGCTAG	TGAACCAGAG	AGTTGGATG	TCAAGCCGT	TAATGTTAT	TACAATATAG	21300
AAAAGTCTA	ACAAAGTGT	CTTAACTTT	TTTTTTTTT	TTTCTCCCTC	TACTTCTACT	21360
TGTTCTCACT	CTGCCACAA	CGCGCTTGT	ACATTGAATG	TGAGCTTTGT	TTGCTTAAC	21420
AGACATATAT	TTTTCTTTT	GGTTTGCTT	GACATGGTT	CCCTTCTAT	CCGTGCAGGG	21480
TTCCCAGACG	GCCTTTGAG	AATAAAATGG	GAGGCCAGAA	CCAAAGTCTT	TTGAATAAG	21540
CACCACAACT	CTAACCTGTT	TGGCTGTTT	CCTTCCCAAG	GCACAGATCT	TTCCCGAGCAT	21600
GGAAAAGCAT	GTAGCAGTTG	TAGGACACAC	TAGACGAGAG	CACCAAGATCT	CATTGTGGGT	21660
GGTTGTGAAC	CACCCACAT	GTGGTGCCT	GGGATTTGAA	CTCAGGATCT	TCAGAAGACG	21720
AGTCAGGGCT	CTAAACCGAT	GAGCCATCTC	TCCAGCCCTC	CTACATTCCT	TCTTAAGGCA	21780
TGAATGATCC	CAGCATGGGA	AGACAGTCTG	CCCTCTTGT	GGTATATCAC	CATATACTCA	21840
ATAAAATAAT	GAAATGAATG	AAGTCCTCAC	GTATTTATT	CTTCGAGCTA	TCTAAATTCT	21900
CTCACAGCAC	CTCCCCCTCC	CCCACACTGC	CTTCTCCCT	ATGTTGGGT	GGGGCTGGGG	21960
GAGGGTGGG	GTGGGGCAG	GGATCTGCAT	GTCTTCTTG	AGGCTGTGTA	ACTATTTGCG	22020
ATGGCCTGGT	TCTCTGAACT	GTTGAGCCTT	GTCTATCCAG	AGGCTGACTG	GCTAGTTTTC	22080
TACCTGAAGT	CCCTGAGTGA	TGATTTCCCT	GTGAATT			22118

(2) INFORMATION FOR SEQ ID NO:17:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 42999 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

GCTGACACGC	TGTCCTCTGG	CGACCTGTCG	TCGGAGAGGT	TGGGCCTCCG	GATGCGCGCG	60
GGGCTCTGGC	CTCACGGTGA	CCGGCTAGCC	GGCCGCGCTC	CTGCCTTGAG	CCGCCTGCCG	120
CGGCCCGCGG	GCCTGCTGTT	CTCTCGCGCG	TCGGAGCGTC	CCGACTCCCG	GTGCCGGCCC	180
GGGTCCGGG	CTCTGACCCA	CCCAGGGCG	GCGGGGAAGG	CGGCGAGGGC	CACCGTGCC	240
CGTGCCTCT	CCGCTCGGGG	CGCCCGGGG	GCGCACAAC	CCCACCGCT	GGCTCCGTGC	300
CGTGCCTGTC	AGGCCTTCTC	GTCTCCCGG	GGTTGTCGCC	CGGCCCTTCC	CCGGAGTGGG	360
GGGTGGCCGG	AGGCATCGG	CTCGCTGGCC	GGCCGGCCTC	CGCTCCCGGG	GGGCTCTTCG	420
ATCGATGTGG	TGACGTCGTG	CTCTCCCGGG	CCGGGTCCGA	GCGCGACGG	GCGAGGGCG	480
GACGTTCTG	GCGAACGGGA	CCGTCCTTCT	CGCTCCGCC	GCGCGTCCC	CTCGTCTGCT	540
CCTCTCCCCG	CCCGCCGGCC	GGCGTGTGGG	AAGGCGTGGG	GTGCAGACCC	GGGCCCGACC	600
TCGCCGTCCC	GCCCAGCGCC	TTCGCTTCG	GGGTGCGGGC	CGCGGGGTC	CTCTGACCG	660
GCAGACAGCC	CTGCCTGTCG	CCTCCAGTGG	TTGTCGACTT	CGGGCGGGCC	CCCCTCCGCG	720
GCGGTGGGGG	TGCCGTCCCG	CCGGCCCGTC	GTGCTGCCCT	CTCGGGGGGG	TTTGCGCGA	780
GCGTCGGCTC	CGCCTGGGGC	CTTGCCTGTC	TCTGGAGCG	CTCCGGGTTG	TCCCTCAGGT	840
GCCCGAGGCC	GAACGGTGGT	GTGCTGTTCC	CGCCCCCGGG	GCCCCCTCCT	CCGGTCCGCG	900
CCCGGGTGTG	CGCGCGTGGG	TCCTGAGGGA	GCTCGTGGT	GTGGGGTTCG	AGGCGGTTTG	960
AGTGAGACGA	GACGAGACGC	GCCCCTCCCA	CGCGGGGAAG	GGCGCCCGCC	TGCTCTCGGT	1020
GAGCGCACGT	CCCGTGCTCC	CCTCTGGCGG	GTGCGCGCGG	GCGTGTGAG	CGATCGCGGT	1080
GGGTTGGGGC	CGGTGTGACG	CGTGCAGCGG	CGGGCCGCGG	AGGGCGTGCC	GTTCTGCC	1140
CGACCGGTCG	TGTGTGGGTT	GACTTCGGAG	GCGCTCTGCC	TCGGAAGGAA	GGAGGTGGGT	1200
GGACGGGGGG	GCCTGGTGGG	GTTGCGCGCA	CGCGCGCAC	GGCCGGGCCC	CGGCCCTGAA	1260
CGCGAACGCT	CGAGGTGGCC	GCGCGCAGGT	GTTCCTCTCGT	ACCGCAGGGC	CCCCTCCCTT	1320
CCCCAGCGT	CCCTCGGGCG	CTCTCGGGC	CGAGGAGGGA	CGGGCTGGCG	GGTGGGGGGA	1380
GTGTGACCCA	CCCTGGGTGA	GAAAAGCCTT	CTCTAGGGAT	CTGAGAGGCG	TGCTTGGGG	1440
GTACCGGATC	CCCCGGGCGC	CCGCCTCTGT	CTCTGCTCC	GTTATGGTAG	CGCTGCCGTA	1500
GCGACCCGCT	CGCAGAGGAC	CCTCTCCCG	TTTCCCCTCG	ACGGGGTTGG	GGGGGAGAAG	1560
CGAGGGTTCC	GCCGGCCACC	GCGGTGGTGG	CCGAGTGCGG	CTCGTCCGCT	ACTGTGGCCC	1620
GCGCCTCCCC	CTTCCGAGTC	GGGGGAGGAT	CCCCCGGGGC	CGGGCCCGGC	GCTCCCACCC	1680
AGCGGGTTGG	GACGCGCGG	CGGGCGGGCG	GTGGGTGTGC	GCGCCCGGCG	CTCTGTC	1740
CGCGTGACCC	CCTCCGTCGG	CGAGTCGGCT	CTCCGCCCGC	TCCCCTGCG	AGTCGTGACC	1800
GGTGGCGACG	ACCGCGTTTG	CGTGGCACGG	GGTCGGGCC	GCCTGCCCT	GGGAAAGCGT	1860
CCCACGGTGG	GGGCGCGGCC	GTCTCCCGGA	GCGGGACCGG	GTCGGAGGAT	GGACGAGAAT	1920
CAAGGACGAC	GGTGGTGGTG	CGCTGTGGGG	TTCTGGCTG	CGGTGCTCT	GGGGCCCCCG	1980
GTGGCGGGC	CCCGGGGCTC	GCGAGGCGGT	TCTCGGTGGG	GGCCGAGGGC	CGTCCGGCGT	2040
CCCAGGGCGG	CGCGCGCGGG	ACCGCCCTCG	TGTCTGTGGC	GGTGGGATCC	CGCGGCCGTG	2100
TTTTCTGGT	GGCCCCGGCC	TGCCTGAGGT	TTCTCCCCGA	GCCGCCGCC	CTGCGGGCTC	2160
CCGGGTGCC	TTGCCCTCGC	GGTCCCCGGC	CCTCGCCCGT	CTGTGCCCTC	TTCCCCGCC	2220
GCCGCCGCC	GATCCTCTTC	TTCCCCCGA	GCGGCTCAC	GGCTTCACGT	CGTTGGTG	2280
CCCCGCTCTG	GACCGAACCC	GGCACCGCCT	CGTGGGGCGC	CGCCGCCGGC	CACTGATCGG	2340
CCCGGGCGTCC	CGCTCCCCCG	GCGCGCGCCT	TGGGGACCGG	GTCGGTGGCG	CGCCCGTGG	2400
GGCCCGGTGG	GCTTCCCCGG	GGGTTCCGGG	GGTCGGCTG	CGCGCGTGC	GGGGAGGAG	2460
ACGGTTCCGG	GGGACGGGCC	CGCGCTGGCG	CGGGGGCGGT	GGTGGGGGA	CGCGCGGGGA	2520
TCGCCGAGGG	CCGGTCCGCC	GCCCCGGGTG	CCCCCGGGGT	CGGCCGGCGG	CGGTGAGGCC	2580
CCGCGCGTGT	GTCCCCGGCTG	CGGTCCGCCG	CGCTCGAGGG	GTCCCCGTG	CGTCCCTTC	2640
CCCGCCGGCC	GCCTTCTCCG	CGCCTTCCCC	GTGCCCCCGG	CCTCGCCCGT	GGTCTCTCGT	2700
CTTCTCCCGG	CCCGCTCTTC	CGAACCGGGT	CGGCGCGTC	CCCGGGTGCG	CCTCGCTTCC	2760
CGGGCCTGCC	GCGGCCCTTC	CCCGAGGCGT	CGTCCCGGG	CGTCGGCGTC	GGGGAGAGCC	2820
CGTCCTCCCC	CGGTGGCGTC	GCCCCGTTG	GCGCGCGCGT	GCGCCCGAGC	CGGGCCCGGT	2880
GGTCCCTCCC	GGACAGGGCGT	TCGTGGCGACG	TGTGGCGTGG	GTCGACCTCC	GCCTTGCCGG	2940
TCGCTCGCCC	TCTCCCCGGG	TCGGGGGGTG	GGCCGGGGCG	CGGGGCTCG	GCCCCGGTGC	3000
CTGCTCTCCG	TCCCCGGGCG	GGGCGGGCGC	GGCCGGGGCG	CTCGGTGCGCC	CTCCCTTGGC	3060
CGTCGTGTGG	CGTGTGACAC	CCCTGCGCCG	GCGCCCGCCG	CGGGGGCTCG	GAGCCGGGCT	3120
TCGGCCGGGC	CCCGGGCCCT	CGACCGGACC	GGCTGCGCGG	GCGCTGCGGC	CGCACGGCGC	3180
GACTGTCCCC	GGGCCGGGGCA	CGCGCGTCCG	CCTCTCGCTC	GCGCCCGGGA	CGTCGGGGCC	3240
GCCCCGGGGG	GGGGCGGGAG	CGCGTCCCC	GCCTCGCCGC	CGCCCGCGGG	CGCCGGCCGC	3300
GCGCGCGCGC	GGGTGGCCGC	CGGTCCCTCC	CGGCCGCCGG	GGCGGGGTGCG	GGCCGTCCGC	3360
CTCCTCGCGG	GGGGCGCGGA	CGAAGAAGCG	TCGCGGGTCT	GTGGCGCGGG	GCCCCCGGTG	3420

GTCGTGTCG	GTGGGGGGCG	GGTGGTTGGG	CGCTCCGGTT	CGCCGCGCCC	CGCCCCGGCC	3480
CCACCGGTCC	CGGCCGCGC	CCCCGCGCCC	GCTCGCTCCC	TCCCCTGCCG	CCGTCCGCGG	3540
CCCGTCCGTC	CGTCCGTC	TCGTCCTCCT	CGCTTGC	GGGCGGGCG	CGGCCGCGG	3600
AGGCCCCCG	GCCGGCGTC	CGGCCGCGT	GGGGGCTCGC	CGCGCTCTAC	CTTACCTACC	3660
TGGTTGATCC	TGCCAGTAGC	ATATGCTTGT	CTCAAAGATT	AAGCCATGCA	TGTCTAAGTA	3720
CGCACGGCCG	GTACAGTGAA	ACTGCGAATG	GCTCATTAAA	TCAGTTATGG	TTCTTTGGT	3780
CGCTCGCTCC	TCTCTACTT	GGATAACTGT	GGTAATTCTA	GAGCTAATAC	ATGCCGACGG	3840
GCGCTGACCC	CCTTCGCGGG	GGGGATGCGT	GCATTATCA	GATAAAACC	AACCCGGTCA	3900
GCCCCCTCTCC	GGCCCCGGCC	GGGGGGCGGG	CGCCGGCGGC	TTTGGTGA	CTAGATAACC	3960
TCGGGGCCGAT	CGCACGCC	CCGTGGCGGC	GACGACCCAT	TCGAACGTCT	GCCCTATCAA	4020
CTTTCGATGG	TAGTCGCCGT	GCCTACCATG	GTGACCACGG	GTGACGGGGA	ATCAGGGTTC	4080
GATTCCGGAG	AGGGAGGCTG	AGAAACGGCT	ACCACATCCA	AGGAAGGCAG	CAGGCGCGCA	4140
AATTACCCAC	TCCCGACCCG	GGGAGGTAGT	GACGAAAAAT	AACAATACAG	GACTCTTCG	4200
AGGGCCCTGTA	ATTGGAATGA	GTCACCTTA	AATCTTTAA	CGAGGATCCA	TTGGAGGGCA	4260
AGTCTGGTGC	CAGCAGCCG	GGTAATTCA	GCTCCAATAG	CGTATTTAA	AGTTGCTGCA	4320
GTTAAAAAGC	TCGTAGTTGG	ATCTTGGGAG	CGGGCGGGCG	GTCCGCCGCG	AGGCGAGCCA	4380
CCGCCCCGTC	CCGCCCCCTG	CCTCTCGCG	CCCCCTCGAT	GCTCTAGCT	GAGTGTCCC	4440
CGGGGGCCGA	AGCGTTTACT	TTGAAAAAAAT	TAGAGTGTTC	AAAGCAGGCC	CGAGCCGCCT	4500
GGATACCGCA	GCTAGGAATA	ATGGAATAGG	ACCGCGGTT	TATTTTGTG	TTTTTCGAA	4560
CTGAGGCCAT	GATTAAGAGG	GACGGCCGG	GGCATTGCTA	TTGCGCCGCT	AGAGGTGAA	4620
TTCTTGGACC	GGCGCAAGAC	GGACCAAGAGC	GAAAGCATT	GCCAAGAATG	TTTCATTAA	4680
TCAAGAACGA	AAGTCGGGAG	TTCGAAGACG	ATCAGATACC	GTGCTAGTTC	CGACCATAAA	4740
CGATGCCGAC	CGCGATGCCG	GGGGCGTTAT	TCCCATGACC	CGCCGGCGAG	CTTCCGGGAA	4800
ACCAAAGTCT	TTGGGTTCCG	GGGGGAGTAT	GGTGC	GGTCAAAG	CTGAAACTTA	4860
CGGAAGGGCA	CCACCAAGGAG	TGGAGCCTGC	GGCTTAATT	GACTCAACAC	GGGAAACCTC	4920
ACCCGGCCCG	GACACGGACA	GGATTGACAG	ATTGATAGCT	CTTCTCGAT	TCCTGGGTG	4980
GTGGTGCATG	GCCGTTCTTA	GTGTTGGAG	CGATTGTC	GGTTAATTCC	GATAACGAAC	5040
GAGACTCTGG	CATGCTAACT	AGTTACGCGA	CCCCCGAGCG	GTGCGCGTCC	CCCAACTTCT	5100
TAGAGGGACA	AGTGGCGTTC	AGCCACCCGA	GATTGAGCAA	TAACAGGTCT	GTGATGCC	5160
TAGATGTCCG	GGGCTGCACG	CGCGCTACAC	TGACTGGCTC	AGCGTGTGCG	TACCCCTACGC	5220
CGGCAGGCGC	GGGTAACCCG	TTGAACCCCA	TTCGTGATGG	GGATCGGGGA	TTGCAATTAT	5280
TCCCCATGAA	CGAGGGAATT	CCCGAGTAAG	TGCGGGTCA	AAGCTGCGT	TGATTAAGTC	5340
CCTGCCCTTA	GTACACACCG	CCCCTCGCTA	CTACCGATTG	GATGGTTAG	TGAGGCCCTC	5400
GGATCGGCC	CGCCGGGGTC	GGCCCACGGC	CTTGGCGGAG	CGCTGAGAAG	ACGGTCGAAC	5460
TTGACTATCT	AGAGGAAGTA	AAAGTCGTAA	CAAGGTTTC	GTAGGTGAAC	CTGCGGAAGG	5520
ATCATTAAACG	GAGCCCGGAG	GGCGAGGCC	GGGGCGGGCG	CGCCGCCGCC	GGCGCCTTC	5580
CTCCGCACAC	CCACCCCCCCC	ACCGCGACGC	GGCGCGTGC	CGGGCGGGGC	CCGCGTGC	5640
GTTCGTCG	TCGCTCGTTC	GTTCGCGGCC	CGGCCCCCGCC	GCCGCGAGAG	CGAGAACCTC	5700
GGGAGGGAGA	CGGGGGGGAG	AGAGAGAGAG	AGAGAGAGAG	AGAGAGAGAG	AGAGAGAGAA	5760
AGAAGGGCGT	GTCTGGTGTG	TGCGCGTGC	GTGGGGCGGG	CGGGCGGGCG	GGAGCGGTCC	5820
CCGGCCGGCG	CCCCGACGAC	GTGGGTGTG	CGGGGGCGGG	GGGGCGGTCT	CGGGGGCGGT	5880
CGCGCGGGTC	TGGGGGGGTC	TCGGTGCCT	CCTCCCCGCG	GGGGCGCGTC	GTCCGGCCCC	5940
CCGCGCCGG	CTCCCCGTCT	TCGGGGCCGG	CGGGATTCCC	GTGCGCTCCG	CCGCGCCGCT	6000
CCGCGCCGCC	GGGCACGGCC	CCGCTCGCTC	TCCCCGGCCT	TCCCGCTAGG	GCGTCTCGAG	6060
GGTCGGGGC	CGGACGCCGG	TCCCCTCCCC	CGCCTCCTCG	TCCGCC	CGCCGTCCAG	6120
GTACCTAGCG	CGTTCCGGCG	CGGAGGTTA	AAGACCCCT	GGGGGATCG	CCCGTCCGCC	6180
CGTGGGTGCG	GGGCGGTGGT	GGGCCCCGCG	GGGAGTCCC	TGTTGAGGGG	CCCGGCC	6240
CCCGCGCTC	CACCGCGGAC	TCCGCTCCCC	GGCCGGGGCC	CGCCGCCGCG	CGCCGCCGCG	6300
GCGCCGGCTG	GGTGGGGGCT	TTACCCGGCG	GCGCTCGCG	GCCTGCCGCG	CCTGTGGCGT	6360
GGCCCCCGCG	CCGTTGGGGC	GGGAACCCCC	GGGCGCTCTG	GGGGTGTG	CGCCGCTCGC	6420
CCCCCGGTGG	GGGGCGCGCG	CCTCCCCGTG	GTGTAAC	TTCCGACCC	TCTCCGGAGT	6480
CCGGTCCCGT	TTGCTGTCTC	GTCTGGCCGG	CGTGA	CCCCCTCTCC	TCTTGGGCGG	6540
GGGGGGGGGG	GGGACGTGCC	GCGCCAGGAA	GGGCCTCCTC	CGGGTGC	GTGCGGAGCG	6600
CCCTCGCCAA	ATCGACCTCG	TACGACTCTT	AGCGGTGGAT	CACTCGC	GTGCGTCGAT	6660
GAAGAACGCA	GCTAGCTGCG	AGAATTATG	TGAATTGCA	GACACATTGA	TCATCGACAC	6720
TTCGAACGCA	CTTGC	CGGGTTCC	CCGGGGCTAC	GCCTGCTGA	CGTGC	6780
CCGATCAATC	GGCCCCGGGG	TGCCTCCGG	CTCTCGGG	TGCGCGGCTG	GGGGTTCC	6840
CGCAGGGCCC	GGCGGGGGCC	CTCCGTC	CTAACGCGCAG	ACCCGGCCG	GTCCGCC	6900
CTCTTGGCGC	CGGGGGGGCC	CCTTCCCCCT	CCCCCGCGG	GGCCCTGCG	GTCACGCC	6960
GGGTGGCGGG	GGGGAGAGGG	GGGCGCGCC	GGCTGAGAGA	GACGGGGAGG	CGGGCGCC	7020
CGCCGAAAGA	CGGAGAGGG	AAAGAGAGAGC	CGGCTCGGGC	CGAGTCCC	TGGCCGCGC	7080
CTGCGGTCCG	GGTTCTCTCC	TCGGGGGGCT	CCCTCGCGC	GCGCGGGCT	CGGGGTTCC	7140
GGTTCGTCGG	CCCCGGCCGG	GTGGAAGGT	CGTGTGCC	CGTGTGCG	GTGCGCGC	7200
GTCGGCGGTG	GGGGCGTGT	GGGTGCGGT	GGAGGAGGAA	GGCGGGTCCG	7260	
GAAGGGGAAG	GGTGC	GGGAGAGAGG	GTCGGGGAG	CGCGTCCC	TCGCGCGC	7320

TCCGCCGCC	GCCCCCGGTG	GCGGCCGGC	GTCCGGCCGA	CCGGCCGCTC	CCCAGGCC	7380
TCCTCCTCCC	CGCCGCCCC	CCTCCGAGGC	CCCGCCCGTC	CTCCTCGCCC	TCCCCCGCG	7440
TACGCGCGCG	CGCCCGCCCG	CCCGGCTCGC	CTCGCGGCCG	GTCGGCCGGG	GCCGGGAGCC	7500
CGCCCCCGCG	CCCAGCCGTG	GCGCGGCCG	CGGGGTTCGC	GTGTCGGCC	CGCGACCCG	7560
CGGGACCGCG	CGGTGTCGTC	CGCCGTCGCG	CGCCCGCCCT	CGGCTCGCG	CGCGCCCGCG	7620
CCGCGCCGGG	GCCCCGTCCC	GAGCTTCGCG	GTCGGGGCGG	CGCGCTCGCG	CGCGCCGTC	7680
CTCGGACCGG	TCCCCCGAC	CTCCGCGGGG	GAGACGCGCC	GGGGCGTGC	CGCGCCGTC	7740
CGCCCCCGGC	CCGTGCCCC	CCCTCCGGTC	GTCCCGCTCC	GGCGGGCGG	CGCGGGGGCG	7800
CCGTGGCCG	CGOGCTCTCT	CTCCCGTCG	CTCTCCCCCT	CGCCGGGCC	GTCTCCCGAC	7860
GGAGCGTCGG	CGGGCGGTG	GGGCCGGCG	GATTCCGTCC	GTCCGTCCG	CGAGCGGCC	7920
GTCCCCCTCC	GAGACGCGAC	CTCAGATCAG	ACGTGGCGAC	CCGCTGAATT	TAAGCATATT	7980
AGTCAGCGGA	GGAAAAGAAA	CTAACCAAGGA	TTCCCTCAGT	AACGGCGAGT	GAACAGGGAA	8040
GAGCCCAGCG	CCGAATCCCC	GCCCCGCGGG	GCGCGGGACA	TGTGGCGTAC	GAAGACCCG	8100
CTCCCCGGCG	CCGCTCGTGG	GGGGCCCAAG	TCTCTCTGAT	CGAGGGCCAG	CCCGTGGACG	8160
GTGTGAGGCC	GGTAGCGGCC	GGCGCGCGC	CGGGTCTTC	CGGAGTCGGG	TTGCTTGGGA	8220
ATGCAGGCCA	AAGGGGGTGG	TAAACTCCAT	CTAAGGCTAA	ATACCGGCAC	GAGACCGATA	8280
GTCAACAAGT	ACCGTAAGGG	AAAGTTGAAA	AGAACCTTGA	AGAGAGAGTT	CAAGAGGGCG	8340
TGAAACCGTT	AAGAGGTAAA	CGGGTGGGGT	CCGCGCAGTC	CGCCCGGAGG	ATTCAACCCG	8400
GCGGCGGGTC	CGGGCGTGTG	GGCGGCCCGG	CGGATCTTC	CGGCCCCCG	TTCTCCCGA	8460
CCCCTCCACC	CGCCCTCCCT	TCCCCCGCCG	CCCGCTCTCC	TCCTCCCCCG	AGGGGGCGGG	8520
CTCCGGCGGG	TGGGGGGGTG	GGCGGGCGGG	GCGGGGGGTG	GGGTCGGCG	GGGACCGTCC	8580
CCCGACCGGC	GACCGGCCG	CGCCGGCGC	ATTTCACCG	CGGCGGTGCG	CCGCGACCCG	8640
CTCCGGGACG	GCTGGGAAGG	CCCCGGGGGG	AAAGTGGCTC	GGGGGGCCCC	GTCCGTCCCGT	8700
CCGCTCTCT	CCTCCCCCGT	CTCCGCCCC	CGGGCCCGCG	TCCTCCCTCG	GGAGGGCGCG	8760
CGGGTGGGG	CGGCGGCGGC	GGCGGGGTG	CGGGCGGCG	CGGGGGCGGC	GGGACCGAAA	8820
CCCCCCCCGA	GTGTTACAGC	CCCCCGGCA	GCAGCACTCG	CCGAATCCCC	GGGCGAGGG	8880
AGCGAGACCC	GTCGCCGCGC	TCTCCCCCT	CCCGCGGCC	ACCCCCGCGG	GGAATCCCC	8940
GCGAGGGGGG	TCTCCCCCGC	GGGGCGCGC	CGCGTCTCC	TCGTGGGGG	GCGGGGCCAC	9000
CCCTCCCACG	GCGCGACCGC	TCTCCCACCC	CTCCTCCCCG	CGCCCCCGCC	CGGCGACCG	9060
GGGGGGGTGCC	GCGCGCGGGT	CGGGGGCGGG	GGCGGACTGT	CCCCAGTGC	CCCCGGGGCGG	9120
GTGCGCCG	CGGGCCCGGG	GGAGGTCTC	TCGGGGCAC	CGCGCGTCC	CCCGAAGAGG	9180
GGGACGGCGG	AGCGAGCGCA	CGGGGTGGCG	GGCGACGTG	GCTACCCAC	CGACCCGCT	9240
TGAAACACGG	ACCAAGGAGT	CTAACACGTC	CGCGAGTCG	GGGCTCGCAC	GAAAGCCGCC	9300
GTGGCGCAAT	GAAGGGTAAAG	GCCGGCGCG	TCGCGGGCCG	AGGTGGATC	CCGAGGCC	9360
TCCAGTCGCG	CGAGGGCGCA	CCACCGGCC	GTCTCGCCCG	CCGCGCCGGG	GAGGTGGAGC	9420
ACGAGGCAC	GTGTTAGGAC	CCGAAAGATG	GTGAACATATG	CCTGGGCAGG	CGGAAGGCCAG	9480
AGGAAACTCT	GGTGGAGGTC	CGTAGCGGTC	CTGACGTGCA	AATCGTCGT	CGGACCTGGG	9540
TATAGGGCG	AAAGACTAAT	CGAACCATCT	AGTAGCTGT	TCCCTCCGAA	TTTCTCCCTCA	9600
GGATAGCTGG	CGCTCTCGCA	GACCCGACGC	ACCCCCGCCA	CGCAGTTTTA	TCCGGTAAAG	9660
CGAATGATTA	GAGGTCTTGG	GGCGGAACAG	ATCTCAACAT	ATTCTCAAAC	TTAAATAGGG	9720
TAAGAACGCC	GGCTCGCTG	CGTGGAGCCG	GGCGTGGAAAT	GGCAGTGCCT	AGTGGGCCAC	9780
TTTGGTAAAG	CAGAACTGGC	GCTGGGGAT	GAACCGAACG	CGGGGTTAAG	GCGCCCGATG	9840
CCGACGCTCA	TCAGACCCCA	GAAAAGGTGT	TGGTTGATAT	AGACAGCAGG	ACGGTGGCCA	9900
TGGAAGTCGG	AATCCGCTAA	GGAGTGTGTA	ACAACCTACC	TGCCGAATCA	ACTAGCCCTG	9960
AAAATGGATG	CGCCTGGAGC	GTCGGGCCA	TACCCGGCCG	TCGCGGGCAG	TCGAGAGTGG	10020
ACGGGAGCGG	CGGGGGCGGC	GCGCGCGCG	CGCGTGTGG	TGTGCGTCG	AGGGCGGCCG	10080
CGGCGGGCGG	GGCGGGGGTG	TGGGGTCCTT	CCCCCGCCCC	CCCCCCCACG	CCTCTCCCG	10140
TCCTCCCGCC	CAAGCCCCG	TCCCCGCC	CGGAGCCCCG	CGGACGCTAC	GGCGCGACGA	10200
GTAGGGAGGG	CGCTGGCGT	AGCCTTGAAG	CCTAGGGCG	GGGGCCGGG	GGAGCCGCCG	10260
CAGGTGAGA	TCTTGGTGGT	AGTAGCAAAT	ATTCAAACGA	GAACATTGAA	GGCCGAAGTG	10320
GAGAAGGGT	CCATGTGAAC	AGCAGTTGAA	CATGGGTCA	TCGGTCTGA	GAGATGGGCG	10380
AGCGCGTTC	CGAAGGGACG	GGCGATGGCC	TCCGTTGCC	TCGGCCGATC	GAAAGGGAGT	10440
CGGGGTTCA	TCCCCGAATC	CGGAGTGGCG	GAGATGGGCG	CCGCGAGGCG	TCCAGTGC	10500
TAACCGCACC	GATCCCCGGAG	AAGCCGGCG	GAGCCCCGGG	GAGAGTTCTC	TTTTCTTGT	10560
GAAGGGCAGG	GCGCCCTGGA	ATGGGTTCGC	CCCGAGAGAG	GGGCCGTG	CTTGGAAAGC	10620
GTCGCGTTC	CGGCGGGCGTC	CGGTGAGCTC	TCGCTGGCC	TTGAAATCC	GGGGGAGAGG	10680
GTGTAATCT	CGCGCCGGGC	CGTACCCATA	TCCGCAAGCAG	GTCTCAAGG	TGAACAGCCT	10740
CTGGCATGTT	GGAACAATGT	AGGTAAGGG	AGTCGGCAAG	CCGGATCCGT	AACTTCGGGA	10800
TAAGGATTGG	CTCTAAGGGC	TGGGTGGTC	GGGCTGGGGC	GGCAAGCGGG	CCTGGGCCG	10860
CGCCGCGGCT	GGACGAGGCG	CGCGCCCCC	CCACGCCCCG	GGCACCCCC	TCGCGGCC	10920
CCCCCGCCCC	ACCCGCGCG	GCCGCTCG	CCCTCCCCAC	CCCGCGCC	CTCTCTCT	10980
CTCTCCCCCG	CTCCCCGTCC	TCCCCCTCC	CCGGGGGAGC	GGCGCGTGGG	GGCGCGGCCG	11040
GGGGAGAAGG	GTCGGGCGG	CAGGGGCCG	GGGGCGGCCG	CCGGGGCGG	GGGGGGGG	11100
AGGTCCCCGC	GAGGGGGGCC	CGGGGACCC	GGGGGGCGG	CGGCGGCCG	GAACCTGGAC	11160
GCGAGCCGGG	CCCTTCCCGT	GGATCGCCCC	AGCTCGGCCG	GGCGTGC	CCGCCCCCGG	11220

GGAGCCCCGGC	GGCGGCGCGG	CGCGCCCCCC	ACCCCCACCC	CACGTCTCGG	TCGCGCGCG	11280
GTCCGCTGGG	GGCGGGAGCG	GTCGGCGGC	GGCGGTGGC	GGGCGCGGG	GCGGGGCGGT	11340
TCGTCCCCCCC	GCCTTACCCC	CCCGGCCCG	TCCGCCCCCC	GTTCCCCCCT	CCTCCTCGGC	11400
GCGCGGGGGC	GGCGCGGGCA	GGCGGGGGAG	GGGCCGCGGG	CGGGTCCCCC	CCGCCGGGTC	11460
CGCCCCCGGG	GGCGCGGTTC	CGGCCGCC	TCCGCTCGGC	CGGCCGCTAG	CAGCCGACTT	11520
AGAACTGGTG	CGGACCAAGGG	GAATCCACT	GTAAATTAA	AACAAAGCAT	CGCGAAGGCC	11580
CGCGGCGGGT	GTGACGCGA	TGTGATTCT	GCCCAGTGCT	CTGAATGTCA	AAGTGAAGAA	11640
ATTCAATGAA	GCGCGGGTAA	ACGGCGGGAG	TAACTATGAC	TCTCTTAAGG	TAGCCAAATG	11700
CCTCGTCATC	TAATTAGTGA	CGCGCATGAA	TGGATGAACG	AGATTCCAC	TGTCCCTACC	11760
TAATATCCAG	CGAAAACCACA	GCCAAGGGAA	CGGGCTTGGC	GGAATCAGCG	GGGAAAGAAG	11820
ACCCCTGTTGA	GCTTGACTCT	AGTCTGGCAC	GGTGAAGAGA	CATGAGAGGT	GTAGAATAAG	11880
TGGGAGGGCCC	CCGGCGCC	CCCAGGTGTCC	CCGCGAGGGG	CCCGGGCGGG	GGTCCCGCGC	11940
CCTCGGGGCC	GCCGTTGAA	TACCAACT	CTGATCGTT	TTTCACTGAC	CGGGTGAGGC	12000
GGGGGGGGCA	GGCCGAGGGG	CTCTCGCTTC	TGGCGGCGAAG	CGGCCGCC	GGGGGGCGCG	12060
ACCCGCTCCG	GGGACAGTGC	CAGGTGGGA	GTGACTGG	GGCGGTACAC	CTGTCAAACG	12120
GTAACGCAAG	TGTCCTAAGG	CGAGCTCAGG	GAGGACAGAA	ACCTCCCGTG	GAGCAGAAGG	12180
GAAAAGCTC	GCTTGATCTT	GATTTTCAGT	ACGAATACAG	ACCGTAAAG	GGGGGCCTCA	12240
CGATCCTCT	GACCTTTGG	GTGTTAAGCA	GGAGGTGTCA	GAAAAGTTAC	CACAGGGATA	12300
ACTGGCTTGT	GGCGGCCAAG	CGTTCATAGC	GACGTCGTT	TTTGATCCTT	CGATGTCGGC	12360
TCTTCCTATC	ATTGTGAAGC	AGAATTGCGC	AAGCGTTGGA	TTGTTCACTCC	ACTAATAGGG	12420
AACGTGAGCT	GGGTTTAGAC	CGTCGTGAGA	CAGGTTAGT	TTACCTACT	GATGATGTGT	12480
TGTTGCCATG	GTAATCCTGC	TCAGTACAG	AGGAACCGCA	GGTTCAGACA	TTTGGGTGTAT	12540
GTGCTTGCT	GAGGAGCCAA	TGGGGCGAAG	CTAACATCTG	TGGGATTATG	ACTGAACGCC	12600
TCTAAGTCAG	AATCCCGCCC	AGGCACAGCA	TACGGCAGCG	CCGCGAGGCC	TCGGTTGGCC	12660
TCGGATAGCC	GGTCCCCCGC	CTGTCCTCCG	CGGCGGGCGG	CCCCCCCCCTC	CACGCGCCCC	12720
GCGCGGGAG	GGCGCGTGCC	CCGCCGCGCG	CCGGGACCGG	GGTCCCGTGC	GGAGTGCCT	12780
TCGTCCCTGGG	AAACGGGGCG	CGGCCGAAA	GGCGGGCGCC	CCCTCGCCCG	TCACGCACCG	12840
CACGTTCTG	GGGAACCTGG	CGCTAAACCA	TTCTGAGACG	ACCTGTTCT	GGGTCGGG	12900
TTCTGACGTA	GCAGAGCAGC	TCCCTCGCTG	CGATCTATTG	AAAGTCAGCC	CTCGACACAA	12960
GGGTTTGTC	GGCGCGCGT	GCCTGCGGGG	GGCCCGGGCG	GGTGCCTGCGT	TCGGCGCCGT	13020
CCGTCCCTCC	GTTCGTCCTTC	CTCCCTCCCG	GCCTCTCCCG	CCGACCGCGG	CGTGGTGGTG	13080
GGGTGGGGGG	GGGGGGCGC	GACCCGGTC	GGCCGGCCCC	CTTCTCTGGT	CCCCCCTCC	13140
TCCCCGTTCA	CGCCGGGGCG	GCTCGTCCG	TCCGGGCGG	GACGGGGTCC	GGGGAGCGTG	13200
GTGTTGGAGC	CGCGGAGGCG	CCGCGCCGAG	CCGGGCCCCG	TGGCCCGCCG	GTCCCCGTCC	13260
CGGGGGTTGG	CCCGCGGGCG	CGGTGGGGGG	CCACCCGGGG	TCCCGCCCT	CGCGCCTC	13320
TCCTCCTCGC	TCCCTCGCAC	GGGTCGACCG	ACGAACCGCG	GGTGGGGGGC	GGCGGGCGGC	13380
GAGCCCCACG	GGCGTCCCCG	CACCCGGCG	ACCTCCGCTC	GCGACCTCTC	CTCGGTCGGG	13440
CCTCCGGGGT	CGACCGCCTG	CGCCCGCGG	CGTGAGACTC	AGCGGGCTC	CGCCGTGTC	13500
CGGGTCGACC	GGCGCCTCTC	CCACCGAGCG	GGGGTGTAGG	AGTGCCTGTC	GGGACGAACC	13560
GCAACCGGAG	CGTCCCCGTC	TCGGTCGGCA	CCTCCGGGGT	CGACCACTG	CCGCCCCGCGA	13620
GCTCCGGACT	TAGGGGGCGT	CTGACAGTGT	CTCCGGGTCA	CCAGCAGGCG	GGGGGGGAC	13680
GCAGCGCGC	ACGCACCGCA	GGCGTCGAT	TCCCTTCGCG	GCGCCCGCGC	CTCCACCGGC	13740
CTCGGCCCGC	GGTGGAGCTG	GGACCACTCG	GAACCTCCCTC	TCCCACATT	TTTTCAGCCC	13800
CACCGCGAGT	TTGCGTCCGC	GGGACCTTTA	AGAGGGAGTC	ACTGCTGCCG	TCAGCCAGTA	13860
CTGCTCTCTC	CTTTTCGCT	TTTAGGTTT	GCTTGCCTT	TTTTTTTTT	TTTTTTTTT	13920
TTTTTTCTT	CTTTCTTCT	TTCTTCTTT	CTTCTTTCT	TTCTTCTTT	CGCTTGTCTT	13980
CTTCTTGCT	TCTCTTCTT	CTCTCTCT	GTCTGTCTC	CTCTCTCT	CTCTCTCTGT	14040
CTCTCGCTCT	CGCCCTCTCT	CTCTCTCTC	TCTCTCTCTC	TCTCTCTCTG	TCTCTCGCTC	14100
TCGCCCTCTC	TCTCTCTCTT	CTCTCTCT	CTCTCTCTCT	CTCTCTCT	CTCTCTCTCT	14160
GTCGCTCTG	CCCTCTCGCT	CTCTCTCTG	CTCTGTCTG	GTCTCTCT	CTCCCTCCCT	14220
CCCTCCCTCC	CTCCCTCTCT	CCCTCCCTT	CTCTGGCGCC	TTCTCGGCTC	TTGAGACTTA	14280
GCGCTGTCT	CGCCGTACCC	CGGGTCGACC	GGCGGGCGCT	CTCCACCGAG	GGCGCGTGC	14340
CAGTGCCTCG	CGGGACGAGC	CGGACCCGCC	GGTCCCGCCG	CTCGGTGCGC	ACCTCCGGGG	14400
TCGACCAAGCT	GGCGCCCGCG	AGCTCCGGAC	TTAGCCGGCG	TCTGCACGTG	TCCCGGGTCG	14460
ACCAGCAGGC	GGCGGCCGGA	CGCAGCGCG	CACCGACGGA	GGGCGCTGAT	TCCCGTTCAC	14520
GCGCCCGCGC	CTCCACCGGC	CTCGGCCCGC	CGTGGAGCTG	GGACCACTGCG	GAACCTCCCTC	14580
TCCTACATT	TTTTCAGGCC	CACCGCGAGT	TTGCGTCCGC	GGGACCTTTA	AGAGGGAGTC	14640
ACTGCTGCCG	TCAGCCAGTA	CTGCTCTCTC	CTTTTCGCT	TTTAGGTTT	GCTTGCCTT	14700
TTTTTTTTT	TTTTTTTTT	TTTTTTCTT	CTTCTCTTCT	TTCTTCTTT	CTTCTCTTCT	14760
TTCTTTCTT	CTTTCGCTCT	CGCTCTCTCG	CTCTCTCTCT	CGCTCGTTTC	TTTCTTTCTC	14820
TTTCTCTCTC	TCTCTCTCTC	TCTCTCTCTC	TCTGTCTCTC	GCTCTCGCC	TCTCTCTCTC	14880
TTTCTCTCTC	TCTCTGTCTC	TCTCTCTCTC	TCTCTCTCTC	TCTCTCTCTC	CCTCCCTCTCC	14940
TCCCCCTCCC	TCCCTCTCTC	CCCTTCTCTG	GCGCCTTCTC	GGCTCTTGAG	ACTTAGCCGC	15000
TGTCTGCCG	TGTCCCCGGGT	CGACCGGCGG	GCCTTCTCCA	CCGAGCGGCG	TGCCACAGTG	15060
CCCGTCGGGA	CGAGCCGGAC	CGGCCGCGTC	CCCGTCTCGG	TCGGCACCTC	GGGGGTCGAC	15120

CAGCTGCCGC	CCCGAGAGCTC	CGGACTTAGC	CGGCCTCTGC	ACGTGTCGG	GGTCGACCCAG	15180
CAGGCGGCCG	CCGGACGCTG	CGGCGCACCG	ACGCGAGGGC	GTCGATTCCG	GTTCACGCC	15240
CGGCGACCTC	CACCGGCCCTC	GGCCCGCGGT	GGAGCTGGGA	CCACCGGGAA	CTCCCTCTCC	15300
CACATTTTT	TCAGCCCCAC	CGCGAGTTG	CCTCCGCGGG	ACTTTAAAGA	GGGAGTCACT	15360
GCTGCCGTCA	GCCAGTAATG	CTTCCTCCTT	TTTGCTTT	TGGTTTGCC	TTGCGTTTC	15420
TTCTTTCTT	TCTTCTTTC	TTTCTTCTT	TCTTCTTTC	TCTCTCTCTC	TCTCTCTCTC	15480
TCTCTGTCTC	TCTCTCTCTG	TCTCTCTCCC	CTCCCTCCCT	CCTTGGTGCC	TTCTCGGCTC	15540
GCTGCTGCTG	CTGCCTCTGC	CTCCACGGTT	CAAGCAAACA	GCAAGTTTC	TATTCGAGT	15600
AAAGACGTA	TTTCACCATT	TTGGCCGGGC	TGGTCTCGAA	CTCCCGACCT	AGTGTATCCGC	15660
CCGCTCGGC	CTCCCAAAGA	CTGCTGGGAG	TACAGATGTG	AGCCACCATG	CCCGGCCGAT	15720
TCCTTCCTT	TTTCAATCTT	ATTTTCTGAA	CGCTGCGTG	TATGAACATA	CATCTACACA	15780
CACACACACA	CACACACACA	CACACACACA	CACACACACA	CACACACCCC	GTAGTGTATAA	15840
AACTATGTA	ATGATATTTC	CATAATTAA	ACGTTTATAT	TATGTTACTT	TATATGGATG	15900
AATATGTATC	GAAGCCCCAT	TTCAATTACA	TACACGTGTA	TGTATATCCT	TCCTCCCTTC	15960
CTTCATTAT	TATTTTATTAA	TAATTTCTGT	TTATTTATT	TCTTTCTTT	TGGGGCCGGC	16020
CCGCTGGTC	TTCTGTCTCT	GCGCTCTGGT	GACCTCAGCC	TCCCAAATAG	CTGGGACTAC	16080
AGGGATCTCT	TAAGCCCGGG	AGGAGAGGTT	AACGTGGGCT	GTGATCGCAC	ACTTCCACTC	16140
CAGCTTACGT	GGGCTGCGGT	GGGGTGGGGT	GGGGTGGGGT	GGGGTGGGGT	GCAGAGAAA	16200
CGATTGATTG	CGATCTCAAT	TGCCTTTAG	CTTCATTATC	ACCCCTGTTAT	TTGCTCGTT	16260
ATTCTCATGG	GTTCCTCTGT	GTCATTGTCA	CGTTCATCGT	TTGCTGCGCT	GCTTGCGCTG	16320
TTATTTCTT	CCTTCCTTCC	TTCCCTCTT	CCTTCCTTCC	TTCCCTCTT	CCCTCCCTTA	16380
CTGGCAGGGT	CTTCCTCTGT	CTCTGCCGC	CAGGATCACC	CCAACCTCAA	CGCTTTGGAC	16440
CGACCAAACG	GTCTGTTCTGC	CTCTGATCCC	TCCCATCCCC	ATTACATGAG	ACTACAGGGC	16500
CGCACCAACCA	CACCGGGCTGA	CTTTTATGTT	GTTCCTCATG	TTTTCCTGAG	GTAGGTATGT	16560
GTGTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	GTGTGTATCT	16620
ATGTATGTAC	GTATGTATGT	ATGTATGTGA	GTGAGATGGG	TTTCGGGGTT	CTATCATGTT	16680
GCCCCAGCTG	GTCTCGAACT	CCTGTCTCA	AGCAATCCGC	CTGCCTGCCT	CGGCCGCCA	16740
CACTGCTGCT	ATTACAGGGC	TGAGACGCTG	CGCCTGGCTC	CTTCTACATT	TGCCTGCCTG	16800
CCTGCCTGCC	TGCCTGCCCTA	TCAATCGTCT	TCTTTTCTAGT	ACGGATGTCG	TCTCGCTTTA	16860
TTGTCCATGC	TCTGGGCACA	CGTGGTCTCT	TTTCAAACCT	CTATGATTAT	TATTATTGTA	16920
GGCGTCATCT	CACGTGTCGA	GGTGATCTCG	AACTTTAGG	CTCCAGAGAT	CCTCCCGCAT	16980
CGGCCCTCCCG	GAGTGTGTGT	ATGACACGGC	TGGGCACGGG	ACGCTCTGGT	CCTGTTGTC	17040
GTGGGTCGGT	TCTTCCCGTT	TTAAATACGG	GGACTCGGAA	CGAAGAAAAT	TTTCAGACGC	17100
ATCTACCGA	TCCGCCTTTT	CGTTCTTCTT	TTTATTCTC	TTTAGACGGA	GTTTCACTCT	17160
TGTCGCCAG	GGTGGAGTAC	GATGGCGGCT	CTCGGCTCAC	CGCACCCCTCC	GCCTCCCAAGG	17220
TTCAAGTGAT	TCTCCTGCCT	CAGCCTTCCC	GAGTAGCTGG	AATGACAGAG	ATGAGGCCATC	17280
GTGCCGGCT	AATTTTCTA	TTTTTAGTAC	AGATGGGGTT	TCTCCATCTT	GGTCAGGCTG	17340
GTCTTCAACT	TCCGACCGTT	GGAGAATCTT	AACTTTCTTG	GTGGTGGTTG	TTTTCTTTT	17400
TCTTTTTTTT	TCTTTCTTCTT	TCTTTCTTCTT	TCCTCCCCCC	CCCACCCCCC	TTGTCGTCTG	17460
CCTCCCTCTC	CTCCTCCTCC	TCCTCCCTCC	CCTCCCTCTC	TCCTCCCTCC	TCTTTCATTT	17520
CTTCAGCTG	GGCTCTCTCA	CTTGTGTTG	TCTGTGCTC	ACGCTGGT	CAAACCTCTG	17580
GCCTTGACTC	TTCTCCCGTC	ACATCCGCCG	TCTGGTTGTT	GAAATGAGCA	TCTCTCGTAA	17640
AATGGAAAAG	ATGAAAGAAA	AAACACGAA	GACGGAAAGC	ACGGTGTGAA	CGTTTCTCTT	17700
GCCGTCCTCC	GGGGTGTACC	TTGGACCCGG	AAACACGGAG	GGAGCTTGGC	TGAGTGGGTT	17760
TTCGGTGCCG	AAACCTCCCG	AGGGCCTCCT	TCCCTCTCCC	CCTTGCCCCC	GCTTCTCCGC	17820
CAGCCGAGGC	TCCCACCGCC	GCCCCCTGGCA	TTTTCATAG	GAGAGGTATG	GGAGAGGACT	17880
GACACGCCCT	CCAGATCTAT	ATCCTGCCGG	ACGTCTCTGG	CTCGGCGTGC	CCCACCGGCT	17940
ACCTGCAACC	TTCCAGGGAG	CTCTGAGGCG	GATGCGACCC	CCACCCCCCC	GTCACGTCCC	18000
GCTACCCCTCC	CCCGGCTGGC	CTTGGCGGGG	CGACCCCCAGG	GGAACCGCGT	TGATGCTGCT	18060
TCGGATCCTC	GGCGGAAGAC	TTCCACCGGA	TGGCCCCGGG	GGGCCGGTTG	GGATCAGACT	18120
GGACCACCCCC	GGGACCGTGT	GTTCCTGGGG	GTGGGTTGAC	GTACAGGGTG	GACTGGCAGC	18180
CCCAGCATG	TAAAGGGTGC	GTGGGTATGG	AAATGTCACT	TAGGATGCC	TCCTTCCCTT	18240
CGGTCTGCCT	TCAGCTGCCT	CAGGCGTGA	GACAACCTCC	CATCGGAACC	TCTTCTCTTC	18300
CCTTCTCCA	GCACACAGAT	GAGACGCACG	AGAGGGAGAA	ACAGCTCAAT	AGATACCAGCT	18360
GACCTTCATT	TGTGGAATCC	TCAGTCATCG	ACACACAAGA	CAGGTGACTA	GGCAGGGACA	18420
CAGATCAAAC	ACTATTTCCG	GGTCCTCGTG	GTGGGATTGG	TCTCTCTCTC	TCTCTCTCTC	18480
TCTCTCTCTC	TCTCTCTCTC	TCTCGCACGC	GCACGCGCGC	ACACACACAC	ACAATTCTCA	18540
TATCTAGTT	ACAGAGCACA	CTCACTTCCC	CTTTTACAG	TACGCAAGGCT	GAGTAAAACG	18600
CGCCCCACCC	TCCACCCGGT	GGCTGACGAA	ACCCCTCTC	TACAATTGAT	AAAAAAGATG	18660
ATCTGGGCCG	GGCACGCTAG	CTCACGCCCTG	TCACCTCGGC	ACTTGGGAG	GCCGAGGGCG	18720
GTGGATCGCT	TGGGGCCGGG	AGTCGAGAC	CAGGCTGGGC	GACGTGGCGA	ACCCCGTCT	18780
CTCTGAAAAA	TAGAACGATT	AGCCGGGCCT	GTTGGCGTGG	GCTTGAATC	ACGACCGCTC	18840
GGGAGACTGG	GGCGGGCGAC	TTGTTCCAAC	CGGGGAGGCC	GAGGCCGCGA	TGAGCTGAGA	18900
TCGTGCCGTG	GCGATGCGGC	CTGGATGACG	GAGCGAGACC	CCGTCCTCGAG	AGAATCATGA	18960
TGTTATTATA	AGATGAGTTG	TGCGCGGTGA	TGGCGCCCTG	TAGTCGCGGC	TACTCGGGAG	19020

GCTGAGACGA	GGAGAAGATC	ACTTGAGGCC	CCACAGGTG	AGGCTTCGGT	CGGCCGTGAC	19080
CCACTGTATC	CTGGGCAGTC	ACCGGTCAAG	GAGATATGCC	CCTTCGGCGT	TTGCTTTCT	19140
TTTCTTCCCT	TCTCTTTCT	TCTTTTGCT	TCTCTTTCT	TTCTTCTCTT	CTTCTTTCT	19200
TTCTTTCTT	CTTCTTTCT	TTTCTTTCT	CTCTCTCC	CTCTTCTCTT	CCTGCCTTCC	19260
TGCTTTCTT	CTTTCTCT	TTCTCTCC	CCTCCCTTC	TTCTTCTCT	CCGCCTCAGC	19320
CTCCCAAAGT	GCTGGGATGA	CTGGCGGGAG	GCACCATGCC	TGCTTGGCCC	AAAGAGACCC	19380
TCTTGGAAAG	TGAGACGCAG	AGAGGCCCTT	CCAGTGTACT	CATTGACTGA	TTTAGAGACG	19440
GCATCTCGCT	CCGTCACCCCC	GGCAGTGGTG	CCGTGTAAC	TCACTCCCTG	CAGCGTGGAC	19500
GCTCCTGGAC	TCGAGCGATC	CTTCCACCTC	AGCCTCCAGA	GTACAGAGCC	TGGGACCGCG	19560
GGCACGCGCC	ACTGTGCCCA	CACCGTTTT	AATTGTTTT	TTTCCCGCG	AGACAGAGTT	19620
TCACTCTCGT	GGCCTAGACT	GCAGTGGGT	GGCGCGATCT	TGGCTACCG	CAACCTCTGC	19680
CTCCCGGTTT	CAAGCGATTC	TCCTGCATCG	GCCTCTGAG	TAGCCGGAT	TGCGGGCATG	19740
CGTGCACAG	TCTGGCTGAT	TTCGTATTTT	TAGTGGAGAC	GGGGCTTCTC	CATGTCGATC	19800
GGGCTGGTTT	CGAACCTCCC	ACCTCGGTG	ATCCGCGCTC	CCCGGCGCTC	GGAAAGTGC	19860
GGATGACAGG	CGTGGAGCAC	CGCGCCCGG	CTTCATTTTT	AAATGTTTC	CCACAGACGG	19920
GGTCTCATCA	TTTCTTTGCA	ACCCCTCTGC	CCGGCGTCTC	AAAGTGTG	CGTGACGGGC	19980
GTGAGCCACT	GCCGCTGGAC	TCCGGGAAT	GACTCACGAC	CACCATCGCT	CTACTGATCC	20040
TTTCTTTCTT	TCTTCTTCT	TTTCTTCTT	TCTTTCTTC	TTTCTTCTT	TCTTCTTGA	20100
TGAATTATCT	TATGATTAT	TTGTGTACTT	ATTTTCAGAC	GGAGTCTCG	TCTGGCGGG	20160
GCGAGGCGAG	GCGAGGCA	GCGCATCGCT	TTGGAAGCCG	CGGCAACGCC	TTTCAAAGCC	20220
CCATTCTGAT	GCACAGAGCC	TTATTCCCTT	CTGGAGTTG	GAGCTGATGC	CTTCCGTA	20280
CTTGGGCTTC	TCTCCATTCC	GAAGCTGAC	AGGCGCAGGG	CCACCCAGAG	GCTGGCTCG	20340
GCTGAGGATT	AGGGGGTGTG	TTGGGGCTGA	AAACTGGGT	CCCTATTTTT	GATACTCAG	20400
CCGACACATC	CCCCGACCGC	CATCGCTTC	TCGCCCCCTG	AGATCCCCG	CCTCCACCGC	20460
CTTGCAAGCT	CACCTCTTAC	TTTCATTCTC	TCCTTCTT	CGTTTGAGGA	GGGGGTGCGG	20520
GAATGAGGGT	GTGTGTGGGG	AGGGGGTGC	GGGTGGGGAC	GGAGGGGAGC	GTCCTAAGGG	20580
TCGATTTAGT	GTCATGCCTC	TTTCACCACC	ACCACCA	CCGAAGATGA	CAGCAAGGAT	20640
CGGCTAAATA	CCCGGTGTT	TCATCTAGAA	GTGGGAACTT	ACAGATGACA	GTCTTGCA	20700
GGGCAGAACG	AGGGGGACCG	GGGACGCGGA	AGTCTGCTTG	AGGGAGGAGG	GGTGAAGGA	20760
GAGACAGCTT	CAGGAAGAAA	ACAAAACACG	AATACTGTC	GACACAGCAC	TGACTACCCG	20820
GGTGTGATAAA	TCATCTGCAC	ACTGAACACC	CCCGTCACAA	GTTTACCTAT	GTCACAATCT	20880
TGCACATGTA	TCGCTTGAAAC	GACAAATAAA	AGTTAGGGGG	GAGAAGAGAG	GAGAGAGAGA	20940
GAGAGAGAGA	GACAGAGAGA	GACAGAGAGA	GAGAGAGAGG	AGGGAGAGAG	GAAAACGAAA	21000
CACCACCTCC	TTGACCTGAG	TCAGGGGTT	TCTGGCCTT	TGGGAGAACG	TTCAKGAC	21060
ATGCAGTATT	TGGGCCGTT	CTTTTTTTT	CTTCTTCTT	TCTTCTTTT	TTTTTGGACT	21120
GAGTCTCTCT	CGCTCTGTCA	CCCAGGCTGC	GGTCGCGGTG	GCGCTCTCTC	GGCTCACTGA	21180
AAACCTCTGCT	TCCCGGGTT	CAGTGAATTCT	TCTTCGGTAG	CTGGGATTAC	AGGCGCACAC	21240
CATGACGGCG	GGCTCATATT	CCTATTCTCA	GTAGAGACGG	GGTTTCTCCA	CGTTGGCCAC	21300
GCTGGCTCTG	AACTCTGAC	CTCAAATGAT	CCGCCTTCCT	GGGCCTCCCA	AAGTGCTGGA	21360
AAACGACAGGC	CTGAGCGGCC	GGGATTTCAG	CCTTTAAAAG	CGCGGCCCTG	CCACCTTTCG	21420
CTGTCGGGCT	TACGCTCAGA	ATGACGTTGC	TCTCTGCCC	TAGGTGACT	CCTTGAGTCC	21480
CCTAGGGCAT	TGCACTGTAG	CCTGGGAGC	AAAGAGCCAA	CTCCGNNNCC	CCACCTCCTC	21540
GCGCACATAA	TAACTAAC	ACAAACTAAC	TAACTAAC	AACTAACTAA	CTAACTAAA	21600
TCTCTACACG	TCACCCATAA	GTGTGTGTT	CCGTGAGAGT	GATTCTAAG	AAATGGTACT	21660
GTACACTGAA	CGCAGTGGCT	CACGTCGTG	ATCCCAGGGT	CAGGAGTTCG	AGACCAGCCC	21720
GGCCAACGTG	GTGAAACCCCC	GTCTCTACTG	AAAATACGAA	ATGGAGTCAG	GGCCCGTGGG	21780
GCAGGCACCT	GTAACCCCCAG	CTACTCGGGA	GGCTGGGGTG	GAAGAATTGC	TTGAACCTGG	21840
CAGGGCGAGG	CTGCAGTGCAC	CCAAGATCGC	ACCACTGAC	TACAGCCTGG	GCGACAGAGT	21900
GAGACCCGGT	CTCCAGATAA	ATACGATAC	AAATAAAATAC	ACACATACAT	ACATACATAC	21960
ATACATACAT	ACATACATAC	ATCCATGCAT	ACAGATATAC	AAGAAAGAAA	AAAAGAAAAG	22020
AAAAGAAAGA	GAAAATGAAA	GAAAAGGCAC	TGTATTGCTA	CTGGGCTAGG	GCCTTCTCTC	22080
TGTCTGTTTC	TCTCTGTTCG	TCTCTGTTCT	TCTCTGTTG	TCTCTTCTC	TGTCTGTTG	22140
TCTCTTCTT	TCTCTCTGTC	TCTGTCTCTG	TCTTTGTCTC	TCTCTCTCCC	TCTCTGCTG	22200
TCTCACTGTG	TCTGTCTTCT	GTCTTACTCT	CTTTCTCTCC	CCGTCTGTCT	CTCTCTCTCT	22260
CTCTCCCTCC	CTGTTTGT	CTCTCTCTCC	CTCCCTGTCT	GTTTCTCTCT	CTCTCTTTCT	22320
GTCTGTTTCT	GTCTCTCTCT	GTCTGTCTAT	GTCTTTCTCT	GTCTGTCTCT	TTCTCTGTCT	22380
GTCTGCTCTCT	CTCTTTCTT	TTCTGTGTCT	CTCTGTGCGGT	CTCTCTCTCT	CTGTCTGTCT	22440
GTCTGTCTCT	CTCTCTCTCT	CTCTGTGCGCT	ATCTCTGTC	TTACTCTCTT	TCTCTGCCCTG	22500
TCTGTCTGTC	TCTCTCTCTCC	TTCTGTGTTTC	TCTCTCTCTC	TCTCTCTCTC	TCCCCCTCTC	22560
CCTGTCTGTT	TCTCTCCGTC	TCTCTCTCTT	TCTGTCTGTT	TCTCACTGTC	TCTCTCTGTC	22620
CATCTCTCTC	TCTCTCTGTC	TGTCTCTTTC	GTTCTCTCTG	TCTGTCTGTC	TCTCTCTCTC	22680
TCTCTCTCTC	TCTCTCTCTC	TCCCTGTCTG	TCTGTTTCTC	TCTATCTCTC	GCTGTCCATC	22740
TCTGTCTTTC	TATGTCTGTC	TCTTTCTCTG	TCAGTCTGTC	AGACACCCCC	GTGCCGGGTA	22800
GGGCCCTGCC	CCTTCCACGA	AAAGTGAGAAG	CGCGTGTCTC	GGTGCTTAGA	GAGGCCGAGA	22860
GGAATCTAGA	CAGGCGGGCC	TTGCTGGGCT	TCCCCACTCG	GTGTATGATT	TCGGGAGGTC	22920

GAGGCCGGGT	CCCCGCTTGG	ATGCAGGGG	CATTTCAGA	CTTTCTCTC	GGTCACGTGT	22980
GGCGTCGTA	CTTCTCTAT	TTCCCCGATA	AGCTCCTCGA	CTTCAACATA	AACGGCGTCC	23040
TAAGGGTCGA	TTTAGTGTCA	TGCCTCTTC	ACCGCCACCA	CCGAAGATGA	AAGCAAAGAT	23100
CGGCTAAATA	CCCGTGTTC	TCATCTAGAA	GTGGGAACCTT	ACAGATGACA	GTTCTTGCAT	23160
GGGCAGAACG	AGGGGGACCG	GGNACCGGA	AGCCTGCTTG	AGGGRRGGAGG	GGYGGAAGGA	23220
GAGACAGCTT	CAGGAAGAAA	ACAAAACACG	AATACTGTCG	GACACAGCAC	TGACTACCCG	23280
GGTGATGAAA	TCATCTGCAC	ACTGAACACC	CCCGTCACAA	GTTCACCTAT	GTCACAGTCT	23340
TGCTCATGTA	TGCTTGAACG	ACAAATAAAA	GTTCGGGGGG	GAGAAGAGAG	GAGAGAGAGA	23400
GAGAGACGGG	GAGAGAGGGG	GGAGAGGGGG	GGGGAGAGAG	AGAGAGAGAG	AGAGAGAGAG	23460
AGAGAGAGAG	AGAAAAGAGAA	GTAAAACCAA	CCACCCACCTC	CTTGACCTGA	GTCAGGGGGT	23520
TTCTGGCCCT	TTGGGAGAAC	GTTCAGCGAC	AATGCACTAT	TTGGGCCCCGT	TCTTTTTTTC	23580
TTCTTCTCT	TTCTTCTCT	TTTTTTGGA	CTGAGTCTCT	CTCGCTCTGT	CACCCAGGCT	23640
GCGGTGCGGT	GGCGCTCTCT	CGGCTCACTG	AAACCTCTGC	TTCCCGGGTT	CCAGTGATT	23700
TTCTTCGGTA	GCTGGGATTAA	CAGGTGCGCA	CCATGACGGC	CGGCTCATCG	TTCTATTTC	23760
AGTAGAGACG	GGGTTTCTCC	ACGTTGGCCA	CGCTGGTCTC	GAACCTCTGA	CCACAAATGA	23820
TCCACCTTCC	TGGGCCTCCC	AAAGTGTCTGG	AAACGACAGG	CCTGAGCCGC	CGGGATTTC	23880
GCCTTTAAA	GCGCGCGGCC	CTGCCACCTT	TCGCTGCGGC	CCTTACGCTC	AGAATGACGT	23940
GTCCTCTCTG	CCATAGGTTG	ACTCCTGAG	TCCCCTAGGC	CATTGCACTG	TAGCCTGGC	24000
AGCAAGAGCC	AAACTCCGTC	CCCCCACCTC	CCCGCGCACA	TAATAACTAA	CTAACTAACT	24060
AACTAACTAA	AATCTCTACA	CGTCACCCAT	AAAGTGTGTGT	TCCCGTGAGG	AGTGATTTCT	24120
AAGAAATGGT	ACTGTACACT	GAACGCAGGC	TTCACGTCCTG	TCATCCCGAG	GTCAGGAGTT	24180
CGAGACACG	CCGGCCCCAGC	TGGTGAACCC	CCCGTCTCTA	CTGAAAATAC	AAAATGGAGT	24240
CAGGCCCGT	GGGGCAGGCA	CCTGTAACCC	CAGCTACTCG	GGAGGCTGGG	GTGGAAGAAT	24300
TGCTTGAAAC	TGGCAGGGG	AGGCTGCAGT	GACCCAAGAT	CGCACCACTG	CACTACAGCC	24360
TGGGCGACAG	AGTGAGACCC	GGTCTCCAGA	TAATACTGTA	CATAAAATAAA	TACACACATA	24420
CATACATACA	TACATACAAC	ATACATACAT	ACAGATATAC	AAGAAAGAAA	AAAAGAAAAG	24480
AAAAGAAAAGA	GAAAATGAAA	GAAAAGGCAC	TGTATTGCTA	CTGGGCTAGG	GCCTTCTCTC	24540
TGTCTGTTTC	TCTCTGTTCG	TCTCTGTCTT	TCTCTCTGTG	TCTCTTTCTC	TGTCTGTC	24600
TCTGTCGTC	TGTCTGTC	TTTCTTTCTT	TCTGTCCTCTG	TCTTTGTCCC	TCTCTCTCC	24660
TCTCTGCCT	GTCTCACTGT	GTCTGTCTTC	TATCTTACTCT	TCTTCTCTCTC	CCCCTGTC	24720
TCTCTCTCAC	TCCCTCTCTG	TCTGTTCTC	TCTCTCTCTC	TTTCTGTC	TTTCTGTC	24780
TCTCTGTC	CCTCTCTCTT	TCTCTATCTG	TCTCTTCTCT	TGTCTGTC	CCCCTCTCTT	24840
TCTTTTCTG	TGTCTCTCTG	TCTGTCCTCT	TCTCTCTCTG	TGCCTATCTT	CTGTCCTTACT	24900
CTCTTTCTCT	GCCTGTCTGT	CTGTCTCTCT	CTGTCTCTCC	CTCCCTTTCT	GCTCTCTCT	24960
CTCTCTCTCT	CTCTNNNCC	TCCCTGTCTG	TTTCTCTCTG	TCTCCCTCTC	TTTCTGTC	25020
TTTCTCACTG	TCTCTCTCTG	TCTGTCGTGTT	TCATTCTCTC	TGTCTCTGTC	TCTGTCCTCTC	25080
TCTCTCTCTG	TCTCTCCCTC	TCTGTGTGTA	TCTTTTGTC	TACTCTCCCT	CTCTGCCTGT	25140
CCGTCGTCT	GTCTGTCTCT	CTCTCTCCCT	GTCCCTCTCT	CTTTCTGTC	GTTTCTCTCT	25200
CTCTCTCTCT	CTCTCTCTCT	CTGTCCTCTGT	CTTTCTGTC	CTGTCCTCTT	CTCTGTC	25260
CTGTCCTCT	CTTCTCTCTT	CTGTCCTCT	CTGTCCTCTC	CTCTGTCCT	ATCTTCTGTC	25320
TTACTCTCTT	TCTCTGCCCTG	TCTATCTGTC	TGTCTCTCTC	TGTCTCTCTC	CTGCCTTTC	25380
TGTTTCTCTC	TCTCTCCCTC	TCTCGCTCTC	TCTGTCCTTC	TCTCTTTCTC	TCTGTTTCTC	25440
TGTCTCTCTC	TGTCCGTCTC	TGTCTTTTC	TGTCTGTCTG	TCTCTCTCTT	TCTTTCTGTC	25500
GTCTGTCTCT	GTCTCTGTCT	CTGTCCTCTCT	CTCTCTCTCT	CTCCTGTCT	CTCTCACTGT	25560
GTCTGTCTTC	TGTCTTACTC	TCCTCTCTG	CCTGTCCATC	TGTCTGTCTG	TCTCTCTCTC	25620
TCTCTCCCTA	CCTTTCTGTT	TCTCTCTCGC	TAGCTCTCTC	TCTCTCTGCC	TGTTTCTCTC	25680
TTTCTCTCTC	TGTCCTTCTC	TGTCCTGTCTC	TTTCTCTGTC	TGTCCTGTCTC	TTTCTCTCTG	25740
TCTCTGTC	TGTCCTCTCTC	TCTCTCTCTC	TCTCTCTCTC	TGCCTCTCTC	ACTGTGTCTG	25800
TCTCTGTC	TATTCTCTTT	CTCTCTCTGT	CTCTCTCTCT	CTCTCTTTTA	CTGTCGTGTT	25860
CTCTCTCTCT	CTCTCTCTTT	CTGCCCTGTT	CTCTCTGTCT	GTCTCTGTCT	TCTCTGTC	25920
GTCTGCTCT	CTCTTTCTTT	TTCTGCGTCT	CTCTGTCTCT	CTCTCTCTCT	CTCTGTTCT	25980
ATCTTCTGTC	TTACTCTGTT	TCCTTGCGCTG	CCTGCGCTGTC	TGTGTGTC	TCTCTCTCTC	26040
TCTCTCTCTC	TCTCTCTCCC	TCCCTTTCTC	TTTCTCTGTC	TCTCTCTCTC	TTTCTGGGTG	26100
TTTCTCTCTG	TCTCTCTGTC	CATCTCTGTC	TTTCTATGTC	TGTCTCTCTC	TTTCTCTCTG	26160
TCTCTGTC	TGCCCTCTCTC	TCTCTCTCTC	TCTCTCTCTC	TCTGTCTGTC	TCTCTCACTG	26220
TGTGTGTC	TCTTCTGTC	TACTCTCTCT	CTCTGCGCTG	CCGTCGTCT	GTCTGTC	26280
CCCTCTCTCT	CCCTCCCTTT	CTGTTCTCT	CTCTCTCTCT	TTCTGTC	TTCTCTCTCT	26340
CTCTCTCTGT	CTGTCCTCTT	CTCTGCTCTG	CTGTCCTCTCT	CTTTCTTTTT	CTCTGTC	26400
CTGTCCTCT	CTGTCGTCTG	CTCTCTGTCT	GTGCCCTATCT	TCTGCTTAC	TCTCTTCTC	26460
TGGCTGTC	CCTGTCCTCTC	TCTCTCTCTC	TGTCTGTCTC	CGTCCTCTC	TCCCTGTC	26520
TCTGTTCTC	TCTCTGCCCTC	TCTCTCTCTC	TGTCTGTCTC	TTTCTCTGTC	TGTCTGTCTC	26580
TCTCTTCTCT	TTTCTCTGTC	TCTCTGTCTC	TCTCTGTGTC	TGTCTCTCTT	TCTGTC	26640
TCTCTGTC	TACTCTCTTT	CTCTGGCTGT	CTGCCTGTCT	CTCTCTCTCT	GCCTGTC	26700
GTCCCTCCCT	CCCTGTCTGT	CTGTTCTCT	CTCTGTCTCT	GTCTCTCTGT	CCATCTG	26760
CTGTCCTCTT	CTCTTTCTCT	CTCTCTGTCT	CTGTCCTCT	CTCTCTCTCT	CTGTC	26820

CACTGTGTCT	GTCTTCTGTC	TTACTCTCTT	TCTCTTGCC	GCCTCTGT	CTGTCTGTCT	26880
CTCTCCCTCC	ATGTCTCTCT	CTCTCTCTCA	CTCACTCTCT	CTCCGCTCT	CTCTCTTTCT	26940
GTCTGTTCT	CTCTCTGTCT	GTCTCTCTCC	CTCCATGTCT	CTCTCTCTCT	CTCTCACTCA	27000
CTCTCTCTCC	GTCTCTCTCT	CTCTTCTGT	CTGTTTCTCT	CTCTGTCTGT	CTCTCTCCCT	27060
CCATGTCTCT	CTCTCTCCCT	CTCACTCACT	CTCTCTCCGT	CTCTCTCTCT	CTTCTGTCT	27120
GTTTCTTGT	CTGTCTGTCT	GTCTGTCTGT	CTGTCCTCTCT	CTCTCTCTCT	CTCTCTCTCT	27180
CTCTCTGTT	GTCTTTCTCC	CTCCCTGTCT	GTCTGTCTGT	CTCTCTCTCT	CTGTCTCTGT	27240
CTCTGTCTCT	CTCTCTTCTCT	CTTTCTGTCT	GTTCCTCTCT	ATCTCTCGCT	GTCCATCTCT	27300
GTCTTTCTAT	GTCTGTCTCT	TTCTCTGTCA	GTCTGTCA	CACACCGTG	CGGGTAGGGC	27360
CCTGCCCTTC	CACGAGAGTG	AGAAGCGCGT	GCTTCGGTGC	TTAGAGAGGC	CGAGAGGAAT	27420
CTAGACAGGC	GGGCCTTGCT	GGGCTTCCCC	ACTCGGGTGA	CGATTTCGGG	AGGTGAGGGC	27480
CGGGTCCCCG	CTTGGATGCG	AGGGGCATTT	TCAGACTTTT	CTCTCGGTCA	CGTGTGGCGT	27540
CCGTACTTCT	CCTATTTCCC	CGATAAGTCT	CCTCGACTTC	AACATAAAACT	TTAAAGGCCG	27600
GACGCCAAC	CGCGAACAAAC	CCGTCCTCTAC	TAAAAAATACA	AAGCTGAGTC	GGGAGCGGTG	27660
GGGCAGGCC	TGAAATGCCA	GCTCCTCGGG	AGGCTGAGGC	GGGAGAAATCG	CTTGAACCAG	27720
GGAAGCGGAG	GCTGCAGGGA	GCCGAGATCG	CGGCACTGCA	CTACGGCCCA	GGCTGTAGAG	27780
TGAGTGAGAC	TCGGTCTCTA	AATAAAATACG	GAAATTAAATT	AATTCAATTAA	TTCTTTTCCC	27840
TGCTGACGGA	CATTGCGAGG	CAGGCATCGG	TTGTCCTCGG	GCATCACCTA	GGGGCCACTG	27900
TTATTGAAAG	TCGACGTTGA	CACGGAGGG	GGTCTCGCCG	ACTTCACCGA	GCCTGGGGCA	27960
ACGGGTTTCT	CTCTCTCCCT	TCTGGAGGCC	CCTCCCTCTC	TCCCTCGTTG	CCTAGGGAAC	28020
CTCGCCTAGG	GAACCTCCGC	CCTGGGGGCC	CTATTGTTCT	TTGATCGCG	CTTTACTTTT	28080
CTTGTGTTT	TGGCGCCTAG	ACTCTTCTAC	TTGGGCTTGT	GGAAGGGTCA	TTTTAATT	28140
CAAGTTGCC	CCCGGCTCCC	CCCACTACCC	ACGTCCTTC	ACCTTAATT	AGTGAGNCGG	28200
TTAGGTGGGT	TTCCCCCAAA	CGGCCCCCCC	CCCCCGCC	CCCAACACCC	TGCTTGAAA	28260
CCTTCCAGAG	CCACCCCCGGT	GTGCTCCGT	CTTCTCTCCC	CTTCCCCCAC	CCCTTGCCGG	28320
CGATCTCATT	CTTGCCAGGC	TGACATTGTC	ATCGGTGGGC	GTCAGGCCTC	ACTCGGGGGC	28380
CACCGTTTT	GAAGATGGGG	GCGGCACGGT	CCCACTTCCC	CGGAGGCAGC	TTGGGCCGAT	28440
GGCATAGCCC	CTTGACCCGC	GTGGGCAAGC	GGGCGGGTCT	GCAGTTGTGA	GGCTTTCCC	28500
CCCGCTGCTT	CCCGCTCAGG	CCTCCCTCCC	TAGGAAAGCT	TCACCCCTGGC	TGGGTCTCGG	28560
TCACCTTTA	TCACGATGTT	TTAGTTCTC	CGCCCTCCGG	CCAGCAGAGT	TTCACAAATGC	28620
GAAGGGCGCC	ACGGCTCTAG	TCTGGGCCTT	CTCAGTACTT	GCCCCAAATA	GAAACGCTT	28680
CTGAAACTA	ATAACTTNC	TCACTTAAGA	TTTCCAGGG	CGGCGCCTTG	CCCCGTGTT	28740
GTTGGCTTGT	TTTGTTCG	TCTGTTTGT	TTTGTTCG	TTTTTCTT	TCGTTATGTC	28800
TTCTTTTCA	GGTGAAGTAG	AAATCCCCAG	TTTTCAGGAA	GACGTATT	TTCCCCAAGA	28860
CACGTTAGCT	GCCGTTTTTT	CCTGTTGTGA	ACTAGCGCTT	TTGTGACTCT	CTCAACGCTG	28920
CAGTGAGAGC	CGGTTGATGT	TTACNATCCT	TCATCATGAC	ATCTTATT	CTAGAAATCC	28980
GTAGGCGAAT	GCTGCTGCTG	CTCTGTTGC	TGTTGTTGT	GTTGTTGTTG	TCGTCGTTGC	29040
TGTTGTCGTT	GTCGTTGTTG	TTGTCGTTGT	CGTTGTTTC	AAAGTATACC	CCGGCCACCG	29100
TTTATGGAT	CAAAAGCATT	ATAAAATATG	TGTGATTATT	TCTTGAGCAC	GCCCCTCCCT	29160
CCCCTCTCTC	TGTCTCTCTG	TCTGTCCTG	TCTCTCTCT	TCTCTGTCTG	TCTTCTCTCT	29220
CTCTCTCTCT	CTGTCCTCT	CTCTCTCTG	CTGTCCTGTT	CTCTCTCT	CCCTCTCTCT	29280
CTCTCTCTCT	CTCTCTCTG	CTCTCTCACT	GTGTCCTGTC	TCTGTCCTTAC	TCCCTTTCTC	29340
TGTCTGCTG	TCGGTCTCTC	TCTCTCTCTC	TCCCTGTCTG	TATGTTTCTC	TCTGTCCTCTG	29400
TCTCTCTCTC	TCTTCTGTGT	TCTCTCTCTC	CGTCTCTGTG	TTTCTCTGAC	TGTCTCTCTC	29460
TTTCCTCTCTC	TCTGTCCTCTC	TCTGCCGTG	TCTCTCACTC	TGTCTCTGT	TTTATCTCTC	29520
TCTCTGCCG	CCTGTCCTCTC	TCACTCTCTC	TCTCTGTG	TCTCTCTCTC	TCTTCTGT	29580
TCTCTCTGTC	TCTCTGTCG	TCTCTGTCTT	TCTCTGTG	TCTCTTTGTC	TGTCTGTCTT	29640
TGTCTTCTCT	TCTCTCTGTC	TCTGTCCTCTC	TCACTGTGTC	TGTCTCTGT	CTTAGTCTCT	29700
CTCTCTCTCT	CTCCCTGTCT	GTCTGTCCT	CTCTCTCTCT	CCCCCTGTCT	GTTTCTCTCT	29760
CTCTCTCTCT	CTCTCTCTCT	CTCTGTTTT	GTGTCCTCTG	CTGTTTCTT	CTCTCTCTCT	29820
CTCTCTGTGT	GTCGTTGTC	TGTCTACTG	TCTTCTCTG	CCTGTCCTG	TGTCTGTCTC	29880
TCTCTGTCG	TCTCTCTCTC	TCTCTCCCC	TGTGGGCTGT	TTCTCTGTCT	CTGTCCTGTT	29940
CTCTCTCTCT	GTCGTTTTCT	CTCTGTCCTG	CTTCTCTCT	CTGTCCTCTT	CTCTCTGTCT	30000
CTCTGTCCTG	CTCTGTCCTCT	CTCTCTGTCT	CTCTCTCT	GTGGGGGTGT	GTGTGTGTT	30060
GTGTATGTGT	GTGTGTGTTG	GTGTGTGTTG	CTGCCCTCTG	TCTTACTCTC	TTTCTCTGCC	30120
TGTCTGCTG	CCTGTCGTTG	TGTCTCTCTC	TCTCTGCCG	TCTCTCTCCC	TTCCCTGTCTG	30180
TTTCTCTCTC	TTTCTGTTTC	TCTCTGTC	TGTCCATCTC	TGTCTTTCTC	CGTCTGTCTC	30240
TTTATCTGTC	TCTCTCCGTC	TGTCTCTT	TCTGTCCTC	TCTCTCTT	TGTCTCTCTC	30300
TCTCTGTC	TCGTTGTC	TCTCTGTC	TCTCTGTC	TGTCTCTCT	TCTCTCTCTC	30360
TCTCTCTCTC	TCTCTGTC	TCTCTGTC	TCTCTGTC	TGTCTCTCT	TCTCTCTCTC	30420
TCCCGCCCTC	TCTTTTTTTG	CAAAAGAAC	TCAAGTACAT	CTAATCTAAT	CCCTTACCAA	30480
GGCCTGAATT	CTTCACCTCT	GACATCCAG	ATTGATCTC	CCTACAGAAT	GCTGTACAGA	30540
ACTGGCGAGT	TGATTTCTGG	ACTTGGATAC	CTCATAGAAA	CTACATATGA	ATAAAGATCC	30600
AATCCTAAAA	TCTGGGGTGG	CTTCTCCCTC	GACTGTCTG	AAAAATCGTA	CCTCTGTTCC	30660
CCTAGGATGC	CGGAAGAGTT	TTCTCAATGT	GCATCTGCC	GTGTCCTAAG	TGATCTGTGA	30720

CCGAGCCCTG	TCCGTCTGT	CTCAAATATG	TACGTGCAA	CACTTCTCTC	CATTCCACA	30780
ACTACCCACG	GCCCCTGTG	GAACCACTGG	CTCTTGAAA	AAAATCCCAG	AAAGTGGTTT	30840
GGCTTTTGG	CTAGGAGGC	TAAGCCTGCT	GAGAACCTTC	CTGCCAGGA	TCCCTCGGGAC	30900
CATGCTTGC	AGCGCTGGAT	GAGTCTCTGG	AAGGACGCAC	GGGACTCCGC	AAAGCTGACC	30960
TGTCCCACCG	AGGTCAAATG	GATACTCTG	CATTGGCCCG	AGGCCTCCGA	AGTACATCAC	31020
CGTCACCAAC	CGTCACCGTC	AGCATCCTTG	TGAGCCTGCC	CAAGGGCCCG	CCTCCGGGGA	31080
GAECTTGGG	AGCCCGGCCT	TCGTGGCTA	AAAGTCCAAAG	GGATGGTGCAC	TTCCACCCAC	31140
AAGGTCCCAC	TGAACGGCGA	AGATGTGGAG	CGTAGGTCAG	AGAGGGGACC	AGGAGGGGAG	31200
ACGTCCCAC	AGGCGACGAG	TTCCAAGGC	TCTGGCCACC	CCACCCACGC	CCCACGCCCC	31260
ACGTCCCGG	CACCCGCGGG	ACACGCCGC	TTATCCCT	CCTCTGTCCA	CAGCCGGCCC	31320
CACCCACCA	CGCAACCCAC	GCACACACGC	TGGAGGTTCC	AAAACACAC	GGTGTGACTA	31380
GAGCCTGACG	GAGCGAGAGC	CCATTCTACG	AGGTGGGGAG	GTTGGGGGTG	GGGTGGGTG	31440
GGGGTTGTTG	GGTCTGTGGC	GAGCCGATT	CTCCCTCTTG	GGTGGCTACA	GGCTAGAAAT	31500
GAATATCGCT	TCTTGGGGGG	AGGGGCTTC	TTAGGCATC	ACCGCTTGC	GGACTACCTC	31560
TCAAACCTC	CCTTGAGGCC	ACAAAATAGA	TTCCACCCCA	CCCATCGACG	TTTCCCCCGG	31620
GTGCTGGATG	TATCCTGTCA	AGAGACCTGA	GCCTGACACC	GTCGAATTAA	ACACCTTGAC	31680
TGGCTTGTG	TGTTGTGTTG	TTTCTGAGAT	GGAGTCTTG	TCTGCCCCC	AGGCTGGAGT	31740
GCAGTGGCGT	GATCTCAGCT	CACTGGAACC	TCTGCCTCCT	GGGTTCAAGT	GATTCTCCTG	31800
TCTCAGCGCC	ACCATGGCCG	GCTCATTTT	TTTTTTTTT	TTTTTGGTAG	ACACGGGGTT	31860
TCACCCCTCT	TCATTGGTTT	TCACTGGAGA	TTCTAGATT	GAGCACACC	TCATTCCGTG	31920
CCACAGAGAG	ACTTCTTTT	TTTTTTTTT	TTTTTAAGCG	CAACGCAACA	TGTCTGCCTT	31980
ATTTGAGTGG	CTTCCTATAT	CATTAAATT	GTGTTATAGA	TGAAGAAACG	GTATTAAACA	32040
CTGTGCTAAT	GATAGTGAAG	GTGAAGACAA	AAAGAAAGCT	ATCTATTTG	TGGTTAGAAT	32100
AAAGTTGCTC	AGTATTAGA	AGCTACCTAA	ATACGTACG	ATTTACACTC	TTCCCTAGTAA	32160
AAGCTGCCG	ATCTGAATAA	TCCTCCCTTA	AAACAAACACA	ATTTTGTATA	GGGTTAAAGAT	32220
TTTTTTAAGA	ATGCGACTCC	TGAAAATAG	CTGAACAGAC	GATACACATT	AAAAAAAATA	32280
ACAACACAAG	GATCAACCAG	ACTTGGAAA	AAATCGAAAA	CCACACAAGT	TTATGAAGA	32340
ACTGAGTTCT	TAAAATAGGA	CGGAGAACGT	AGCTATCGGA	AGAGAAGGCA	GTATTGGCAA	32400
GTTGATTGTT	ACGTTGGTCA	GCAGTAGCTG	GCACATCTT	TTTGGCCATC	TTTCGGGCAA	32460
TGTAACTACT	ACAGCAAAT	GAGATATGAT	CCATTAAACA	ACATATTGCG	AAATCAAAAA	32520
GTGTTTCAGT	AAATATAATGC	TTCAAGTTA	GAAGCAAATC	AAATGATAGA	ACTCCACTGC	32580
TGTAATAAGT	CACCCCAAAG	ATCACCGTAT	CTGACAAAAAT	AACTACCACA	GGGTTATGAC	32640
TTCAGAATCA	TACTTTCTTC	TTGATATTAA	CTTATGTATT	TATTTTTTT	AATTATTTTC	32700
TCTTGAGACG	CGTCTCGCTC	TGTCGCCAG	GCTGGAGTGC	GATGGTGTGA	TCTCGGCTCA	32760
CTGCAACCGC	CACCTCCCTG	GGTCAAGCG	ATTCTCTGC	CTCAGCCTCC	CGAGTAGCTG	32820
GGACTACAGG	TGCCCCCAC	CACGCCAGC	TAATCTTTAT	ACTTTAATA	GAGACGGGGT	32880
TTCACCGTGT	CGGCCCGGAT	GGTCTCGATC	TCTTGACCTC	GTGACCCGCC	CGCCTCGGCC	32940
TCCCAAAGTG	CTGGGATGAC	AGGCGTGAGC	CACTGAGCCC	GGCCTCTCT	TGACGTTTAA	33000
ACTATGAGT	CAGTCCAGAG	AAACGCAATA	AATGTCAACG	GTGAGGATGG	TGTTGAGGCA	33060
GAAGTAGGAC	CACACTTTT	CCTATCTTAT	TCAGTTGATA	ACAATATGAC	CTAGGTAGTA	33120
ATTTCTCTATG	TGCTACTTA	TACACCGATA	CAAAGAGTA	AAACAGAGAG	ACTGCTAAAT	33180
TAAAGGGTAC	GTGAAGTCT	TCATAGTAAC	TCCGTAAC	GGAACACTGT	AAAAAGCGAG	33240
CAGCTAGTGA	ATTGTTTCA	TGTATTTTT	TATTATCCAA	TAAGTGAAC	ATGCTATTCC	33300
TTTCCAGTCT	CCCAAGCACT	TCTTGTCCCC	ATCACCACCT	CGGTGCTCGA	AGAAAAAGTA	33360
AGCAAATCAA	GGAACACAAG	CTAAAGAAAC	ACACACACAA	ACCAAAGACA	ACTACAGCGT	33420
CTGCAAAAGT	TTGCTAGAAG	ACTGAAACTG	TTGAGTATAA	GGATCTGGTA	TTCTACGATC	33480
ATGAGTTCAC	TTCAGAGTTT	GTTCAAGACA	TACGTTTCGT	AAGGAAACAT	CTTAGTTAGA	33540
AGTTATTTCAG	CAGTAGGTAC	CATCCCTAAG	TATTTTTAC	CAAATCCGTG	ACAATAAAGA	33600
GCTATCTAAC	CAGAAAAATT	AGCGAGTACG	GGCACCATCC	ATAGGGCTT	GTCTTTACGC	33660
TTCATTAGCA	CTTACCATGC	CTTACAATGT	CTAGGATTGA	CCCTGATAGC	ATTTCGAAAA	33720
CAAGCTAATG	CTTTGTCCAG	TTCTTCAGTG	AAGACAACTC	ACGCCCTAAT	GCGCTATAGG	33780
CATAAGCATC	ATTGGATCC	ACTTCGAGAG	TTCTCTGGAA	GAATTGAATC	GCAATATCGT	33840
GTTCCCGTT	GCAGACCGAA	ACAGTTCCC	TGCAGCACAC	CAGGCCCTG	GCTGGCGAAT	33900
TTTTATCCAT	GTCTGTGAAG	TCTTGGACA	GAACTGAAAG	AGCAACCTCT	TTCGGAGGAT	33960
GCCAAAGTGT	TGTAGAGTAG	ATCTCCATGC	CTTCGACTCT	GTAATTCTCA	ATCCTCCTAA	34020
CCTCTGAGAA	TTGTCTTCA	GCTTGTGTTG	ACTCTGAAAG	TTTACAAATAG	GCCNTTTCCG	34080
ATTTGGCACA	GTACCCAACC	GGTATTGCA	TGGTGAGAAG	CTAGATGGCT	CAAGATGCTG	34140
ATAGCTTCTT	TGCCGTGGTA	AGAACACAAA	GCTAAATAAC	CTTTCCCCCT	TTCACGAAGA	34200
AGGCTCATCA	AGCCTTCCCG	TGCTGCTTTT	TGTAGATTAA	AAGCCTGAAT	CTGAGGGCGC	34260
ATTGCGGCTA	TTTCCCTTC	TGAAATGACG	GAAGAGTCCA	ATTTTGTAC	TTCCAGGCTA	34320
TCACTTATGT	TCGGTGGAGT	TATTGCTCT	TTATTAGTT	TACTTTGGT	TCTCTGTGTT	34380
GGGATTTTAG	GTGGAAACTT	CATTTTAAT	TTCTCTCTAA	TTCTCTCGG	TTGTGGAGCT	34440
GTCACTAGTC	AAGAGTCGTG	AATTCTTC	AGGNCGGTGC	ATTTGGGGA	GATGCCATAG	34500
TGGGGCTCAA	TACCTGAGGT	GTGCCCC	TCGGCGGACC	AGAACTTTGT	GTTTTGCAA	34560
GGACTGGAGT	TACCTTTCGG	CTCTTCCCC	TCTGCGAGAA	GACAGACGGT	GTTCCGGTT	34620

GGCGGATTCT	GGCAACAGGC	TTTTCTGAAG	GGGCTCCGGT	GGATGGCAGC	TCAGTGACAG	34680
ACGGTGTCTC	ATACCAAGTGC	AGTTTGTCA	ATAGGGTCCG	TCTCCGGGAC	TTGGGGTTTC	34740
TAATGGCAAA	ATGCCAACAC	TTGGGGTTAA	TGGACTAAC	GCTGCTGGTC	CTCCTAATAA	34800
ACTTCGACCA	GTTTTGGTT	TATGTTGAAC	CTGTTAGAT	CATATGGAAG	TTCTGTTC	34860
CAGTGGGACA	GTATCAGGTG	AAAGGACAGC	TGAATCGATA	GAAGACACTG	GGGAGTCTGT	34920
ATTCAAGGAG	TACTTTGAAT	TGGAAGATT	TAATTCAT	CCGTTTCATT	CGACGGTGT	34980
CTGGGGTGT	TCCGTAAGAA	CGGTCTCGGG	CTGTCGTG	CATAAACTAG	GACGAGGTCC	35040
AAGTGTGTG	GGCACAACACT	TGGACAGGCA	GTGCTAAAG	CTCTCTAGAG	AGGTGAATCA	35100
AAATGTTGG	TCAGGATCTG	GCTTTCCCC	CCTATTCAC	ATCATGATT	AAAGGGACAC	35160
CAGAGGAAAG	GATTCAACG	AAGGCTTTT	TGGTCACATT	CTGATCCTT	GGTAAGCCGA	35220
TCTGCTTGC	AATATACATG	TCCCGACGAT	GGAAAGGGAA	AGCGAGCTGA	ATCACCAAAC	35280
TCAGGAACCT	TAATATCATC	GTGGCTTTTC	TGCTTATGAA	ACACTCCACC	CGATAAGATT	35340
TGATCCCCT	CTGCAAGCTT	GCTGAGATCA	ACACAAACATT	TCGCAAGCAG	GCATTGAT	35400
TGCGGGGTAG	TACAACGTG	TCCTTCAG	AGTCTATATG	TTTTATAGGC	CTTCTCTGAG	35460
CGGTAAAGAAC	AGGTCGCCAG	TAAGAACAG	GCTTCTTCTG	AGTGTACTTC	TGCATAAAAGG	35520
CGTTCTGCGG	GGGAAACCGC	ATCTCGGTAG	GCATAGTGGT	TTAGTGCTTG	CCATATAGCA	35580
GCCTGGACGG	GTCCCTGCAG	CACCGCCATC	CTCGAGGCTC	AGGCCACTT	TCTGCAGTGC	35640
CACAGGCACC	CCCCCCCCCC	CATAGCGGCT	CCGGCCCGGC	CAGCCCGGC	TCATTTAAAG	35700
GCACCAAGCCG	CCGTTACCGG	GGGATGGGG	AGTCCGAGAC	AGAATGACTT	CTTATCCTG	35760
CTGACTCTGG	AAAGCCCGGC	GCCTTGTGAT	CCATTGCAA	CCGAGAGTC	CCTCGTGT	35820
AGAACACGGA	TCCACTCCCA	AGTTCAGTGG	GGGGATGTGA	GGGGTGTG	AGGTAGGACG	35880
AAGGACTCTC	TTCCTCTG	TTCCGTC	ACAGTGGGGC	CTAGGGCTGG	AGCTCTCTCC	35940
GTGCGGACCG	CTGACTCTCT	CTACCTTGGG	TTCCCTCGGC	CCCACCTGG	AACGCCGGC	36000
CTTGGCAGAT	TCTGGCCCTT	TCTGGCCCTT	CAGTCGCTG	CAGAAACCCC	ATCTCATG	36060
CGGATGCC	GAGTGA	GGCTCGCACC	TCTCCGAA	CATTGAA	ATCTCCTCTA	36120
CGCGCGGCCA	CCTGAAACCA	CAGGAGCTG	GGACACACGT	GCTTCGGGA	GAGAATGCTG	36180
AGAGTCTCTC	GCCGACTCTC	TCTTGACTG	AGTTCTCGT	GGGTGCGTGG	TTAAGACGTA	36240
GTGAGACCAG	ATGTATTAAAC	TCAGGCCGGG	TGCTGGTGGC	TCACGCTGT	AACCCAACA	36300
CTTTGGGAGG	CCGAGGCCGT	AGGATCCCTC	GAGGAATCGC	CTAACCCCTGG	GGAGGTTGAG	36360
GTTGCAGTGA	GTGAGCCATA	GTTGTGTCAC	TGTGCTCCAG	TCTGGCGAA	AGACAGAAATG	36420
AGGCCCTGCC	ACAGGCAGGC	AGGCAGGCG	CGAGGAGAGA	AGACAAACAGC	TGTATTATGT	36480
TCTTCTCAGG	GTAGGAAGCA	AAAATAACAG	AAATACAGCA	TTAATTAAATT	TTTTTTTTTT	36540
CCTTCGAGC	GAGTTTCACT	CTTGGTGC	ACGCTGGAGT	GCAGTGGCAC	CATCTCGGT	36600
CACCGCAACC	TCCACCTCCC	CGCTTC	GATTCTCCTG	CCTCAGCCTC	CTGAGTAGCT	36660
GGGATTACAG	GGAGGAGGCC	CCACACCCAG	CTGATTTGT	ATTGTTAGTA	GAGACGGCAT	36720
TTCTCCATGT	GGGTCA	GGTCTGAAC	TGGCGACCC	AGTGGATCTG	CCCGCCCGG	36780
CCTCCCAAAG	TGCTGGGTG	ACAGGCGTGA	GCCATCGTGA	CTGGCCGGCT	ACGTTTATT	36840
ATTTATTTT	TTAATTATTT	TACTTTTTT	TAGTTTCC	TTTTAATCTA	TTTATTTATT	36900
TACATTATT	TATTTATTTA	TTTATTACT	TATTTATTTA	TTTTGAGAC	AGACTCTCGC	36960
TCTGCTGCC	AGGCTGGAGT	GCAGCGCGT	GATCTCGGCT	CACTGCAACG	TCCGCCTCCC	37020
GGGTTCAACG	CATTCTCTG	CCTCAGCCTC	CCAAGTAGCT	GGGACTACAG	GGCCCGC	37080
CCGTGCCCGG	CTAACTTTT	GTATTTGAG	TAGAGATGGG	GTTTCACTGT	GGTAGGCCAGG	37140
ATGGTCTCGA	TCTCCTGACC	CCGTGATCCG	TCCACCTCGG	CCTCCCAAAG	TGCTGGGATG	37200
ACAGGGTGA	GCCACCGGCC	CCGGCCATT	TATCTATT	TTAACCTTGA	GTCCAGGTTA	37260
TGAAACCACT	TAGTTTTGT	AATTTTTT	TTTTTTTTT	TTTTTGAGA	CGAGGTTTCA	37320
CCGTGTTGCC	AAGGCTTGG	CCGAGGGATC	CACCGCCCT	CGGCCTCCCA	AAAGTGC	37380
GATGACAGGC	GCGAGCCTAC	CGCGCCCGGA	CCCCCCCTT	CCCTTCTCCC	CGCTTGT	37440
CCCGACAGAC	AGTTCACG	CAGAGCGTT	GGCTGGCGT	CTTAAACTCA	TTCTAAATAG	37500
AAATTGGGA	CGTCAGCTTC	TGGCCTCAG	GACTCTGAGC	CGAGGAGTC	CCTGGTCTGT	37560
CTATCACAGG	ACCGTACAC	TAAGGAGGAG	AAAATCGT	ACGTTCAAAG	TCAGTCATT	37620
TGTGATCACAG	AAATACAGC	ATTCAACCA	AAACACAGAA	CCAGTC	TTTAAATGGCC	37680
TTAGCCCTGG	TGTCCGTG	AGTGA	TTCGGTTGG	ACCTTGACTG	AGAGGATTC	37740
CAGTCGGTCT	CTCGTCTCTG	GACGGAAGTT	CCAGATGATC	CGATGGGTGG	GGGACTTAGG	37800
CTGCGTCCCC	CCAGGAGCCC	TGGTCGATTA	GTTGTGGGG	TCGCCTTGG	GGGCGCGGTG	37860
ACCCACTGTG	CTGTTGGAGC	CTCCATCCTT	CCCCCACC	CCTCCCCAGG	GGGATCCAA	37920
TTCATTCCGG	GCTGACACGC	TCACTGGCAG	GCCTCGGGCA	TCACCTAGCG	GTCACTGT	37980
CTCTGAAAAC	GGAGGCC	CAGAGGAAGG	GAGCACCAGG	CCGCCTGCGC	ACAGCCTGG	38040
GCAACTGTGT	CTTCTCCACC	GCCCCCGCC	CCACCTCAA	GTTCCCTCC	CCCTTGTG	38100
CTAGGAAATC	GCACTTTGA	CGACCGGGTC	TGATTGACCT	TTGATCAGGC	AAAAACGAA	38160
AAACAGATAA	ATAAATAAAAA	TAACACAAA	GTAACTA	AAATAAATA	AGTCATACA	38220
ACCCATTACA	ATACAAATAG	ATACGATACG	ATAGGATGCG	ATAGGATACG	ATAGGATACA	38280
ATACAATAGG	ATACGATACA	ATACAATACA	ATACAATACA	ATACAATACA	ATACAATACA	38340
ATACAATACA	ATACAATACG	CCGGGGCGCG	TGGCTCATGC	CTGTCATCCC	GTCAC	38400
GATGCCGAGG	TGGACGCATC	ACCTGAAGTC	GGGAGTTGGA	GACAAGCCG	ACCAACATGG	38460
AGAAATCCCG	TCTCAATTGA	AAATACAAA	CTAGCCGGC	GCAGGTGGC	ATGCCTATAA	38520

TCCCAGCTGC	TAGGAAGGCT	GAGGCAGGAG	AATCGCTTGA	ACCTGGGAAG	CGGAGGTTGC	38580
AGTGAGCCGA	GATTGCGCCA	TCGCACTCCA	GTCTGAGCAA	CAAGAGCGAA	ACTCCGTCTC	38640
AAAAATAAAT	ACATAAATAA	ATACATACAT	ACATACATAC	ATACATACAT	ACATACATAC	38700
ATAAATTAA	ATAAATAAAT	AAAATAAAT	AAATAAATGG	GCCCTGCGCG	GTGGCTCAAG	38760
CCTGTCATCC	CCTCACTTTC	GGAGGCCAAG	GCCGGTGGAT	CAAGAGGCAG	TCAGACCAAC	38820
AGGGCCAGTA	TGGTGAACCC	CCGTCTCTAC	TCACAATACA	CAACATTAGC	CGGGCGCTGT	38880
GCTGTGCTGT	ACTGTCTGTA	ATCCCAGCTA	CTCGGGAGGC	CGAGCTGAGG	CAGGAGAAC	38940
GCTTGAAACCT	GGGAGGCGGA	GGTTGCAGTG	AGCCGAGATC	GCCCACTGC	AACCCAGCCT	39000
GGGCGACAGA	GCGAGACTCC	GTCTCCAAA	AATGAAAATG	AAAATGAAAC	GCAACAAAAT	39060
AATTAAAAAG	TGAGTTTCTG	GGGAAAAAGA	AGAAAAGAAA	AAAGAAAAAA	ACAACAAAAC	39120
AGAACAAACCC	CACCGTGACA	TACACGTACG	CTTCTCGCC	TTCGAGGCCT	CAAACACGTT	39180
AGGAATTATG	CGTGATTTC	TTTTTTAACT	TCATTTATG	TTATTATCAT	GATTGATGTT	39240
TCGAGACGGA	GTCTCGGAGG	CCCGCCCTCC	CTGGTTGCC	AGACAACCCC	GGGAGACAGA	39300
CCCTGGCTGG	GCCCGATTGT	TCTTCTCCTT	GGTCAGGGGT	TTCCTTGCT	TTCTTCGIGT	39360
CTTTAACCCG	CGTGGACTCT	TCCGCCTCGG	GTGACAGA	TGGCAGCTCC	ACTTTAGGCC	39420
TTGTTGTTGT	TGGGGACTTT	CCTGATCTC	CCCAAGATGTA	GTGAAAGCAG	GTAGATTGCC	39480
TTGCCTGGCC	TTGCCTGGCC	TTGCCTTTTC	TTTCTTTCTT	TCTTTCTTTA	TTACTTTCTC	39540
TTTTTCTCT	TCTTCTTCTT	CTTTTTTTG	AGACAGAGTT	TCACTCTGT	TGCCCAAGGCT	39600
AGAGGGCAAT	GGCGCGATCT	CGGCTCACCG	CACCCCTCCGC	CTCCCAGGTT	CAAGCGATT	39660
TCCTGCCTCA	GCCTCCTGAT	TAGCTGGGAT	TACAGGCATG	GGCCACCGTG	CTGGCTGATG	39720
TTTGTACTTT	TAGTAGAGAC	GGTGTTTTTC	CATGTTGGTC	AGGCTGGTCT	CCCACTCCCA	39780
ACCTCAGGTG	GTCCGCTGC	CTTAGCCTCC	CAAAGTGTG	GGATGACAGG	CCTGCAACCG	39840
CGCCCCGCCT	CTCTCTCTCT	CTCGCTCGCT	TGCTTGTCTG	CTTTCGIGCT	39900	
TTCTTGCTTT	CCCGTTTTCT	TGCTTCTTCTT	CTTCTCTTCTG	TTTCTTCTCAT	GCTTGCTTTC	39960
TTGCTTGCTT	GCTGCTTCTTC	GTGCTTCTTCT	GCTTCTCTGT	TTTCTTCTTCT	TCTTCTTCTTC	40020
TTTCTTCTT	TTGTTTCTTT	CTTGCTTGCT	TTCTTGCTTG	TCTGCTTGCT	TCGTGCTTT	40080
CTTGCTTCTC	TGTTTTCTTT	CTTTCTTCTT	TTCTTTCTTCT	TCTTCTTCTGC	TTGCTTTCTC	40140
GCTTGCTTGC	TTTCGTGCTT	TCTTGTTCCT	TCGATTTCTT	TCTTCTTCTTT	TTTCTTCTTC	40200
TGCTTGCTTT	CTTGCTTGCT	TGCTTTCGCT	CTTCTTGCTT	TCCTGTTTTC	TTTCTTCTTCT	40260
TCTTTCTTTT	GTTTCTTCTCT	TGCTTGCCTT	CTGCTTGTCT	TGCTTTCGTTG	CTGTCTTGT	40320
TCTCGATTT	TTTCTTCTCT	TTGTTTCTTT	CTCTGCTTGCT	TTCTGCTTG	ATTGCTTTCG	40380
TGCTTCTTCTG	CTTTCTTCTGTT	TTCTTCTTCTT	CTTTCTTCTTCT	TTTCTTCTTCT	GCTTCTTGT	40440
TTTCTTGCTT	TCTTGCTTGC	TTGCTTTCGCT	GCTTTCTTGT	TTTCTTGCTT	CTTTCTTCTT	40500
GTTCTTTCT	TGCTTGCTTT	CTTGCTTCTCT	GTGTTTCTTG	CTTTCTTGCT	TGCTTGCTTT	40560
CGTCTTTCT	TTCTTGCTTT	CTTTCTTCTTC	TTTCTTTCTCT	TTTCTTCTTCT	TTCTTGCTTT	40620
CTTTTCTTTC	ATCATCATCT	TTCTTCTTT	CCTTTCTTCTC	TTTCTTCTTCT	TCTATCTTC	40680
TTTCTTCTT	TCTTCTTCTC	TTTCTTCTTCT	TCCTTCTGTT	TCGTCTTTTT	GAGACAGAGT	40740
TTCACTCTT	TTTCCACGGC	TAGAGTGAA	TGGCGCGATC	TTGGCTCAC	GCACCTTCG	40800
CCTCCCGGGT	TCGAGCGCTT	CTCCTGCC	CAGCCTCCCG	ATTAGCGGGG	ATTGACAGGG	40860
AGGCACCCCC	ACGCCGGCT	TGGCTGATGT	TTGTGTTTTT	AGTAGGCACG	CCGTGCTCT	40920
CCATGTTGCT	CAGGCTGGTC	TCCAACCTCCC	GACCTCTGT	GATGCCCA	CCTCGGCC	40980
TCGAAGTGCT	GGGATGACGG	CGCTGACGAC	CGTGCCTGGC	CTGTTGACTC	ATTCGCTTT	41040
TTTATTCTT	TCGTTTCCAC	GCGTTTACTT	ATATGATTA	ATGTAACAGT	TTCTGTACGC	41100
TTATATGCAA	ACAACGACAA	CGTGTATCTC	TGCATTGAAT	ACTCTGCGT	ATGGTAAATA	41160
CGTATCGGTT	GTATGAAAT	AGACTTCTGT	ATGATAGATG	TAGGTGTCTG	TGTTATACAA	41220
ATAAAATACAC	ATCGCTCTAT	AAAGAAGGGA	TCGTCATAA	AGACGTTAT	TTTACGTATG	41280
AAAAGCGTCG	TATTTATGTT	TGTAAATGAA	CCGAGCGTAC	GTAGTTATCT	CTGTTTTCTT	41340
TCTTCCCTCTC	CTTCGTGTTT	TTCTTCCCTC	CTTCTCTTCT	TTCTCTCC	CTTTAGGTT	41400
TTCTTCCCTCT	CTTCCTTCTC	TTCTTCTCT	CTTCTCTGTC	TTTTTCTCTT	CTGTGCTTTAT	41460
TTCTCTTCTG	TTCCCTGTGTT	TTCTTCTTCTT	CTTCTTCTCT	CTCTGTTCT	TTTCTCTTC	41520
TTTCTTCTG	TTCTTCTCTC	ATTCTTCTCT	CTTTTTCTG	TTGTTCTTTC	CTTCCCGTCT	41580
GTCTTTAAA	AAATTGGAGT	GTTCAGAAG	TTTACTTTGT	GTATCTACGT	TTTCTAAATT	41640
GTCTCTCTT	TCTCCATTCTT	CTTCCTCCCT	CCCTCCCTCC	CTCCCTGCTC	CCTTCCCTCC	41700
CTCCTTCCCT	TTGCCCATCT	GTCTCTTTTC	CCCACTCCCC	TCCCCCGTC	TGTCTCTGCG	41760
TGGATCCGG	AAGAGCCTAC	CGATTCTGCC	TCTCCGTGT	TCTGCAGCGA	CCCCCGCACC	41820
GAGTCCTTGT	GTGTTCTTTC	TCCCTCCCTC	CCTCCCTCCC	TCCCTCCCTC	CCTCCCTGCT	41880
TCCGAGAGGC	ATCTCCAGAG	ACCGCCCGT	GGGTTGTCTT	CTGACTCTGT	CGCGGTGCGAG	41940
GCAGAGACGC	GTTTGGGCA	CCGTTTGTGT	GGGGTTGGGG	CAGAGGGGCT	GCCTTTTCGG	42000
CCTCGGGAAG	AGCTTCTCGA	CTCACCGTTT	CGCTTCTCGC	GTCCACGGGC	CGCCCTGCCA	42060
GCCGGATCTG	TCTCGCTGAC	GTCCCGGGCG	GTGTTCGGGC	TCCATCTGGC	GGCCGCTTTG	42120
AGATCGTGT	CTCGGCTTCC	GGAGCTGCGG	TGGCAGCTGC	CGAGGGAGGG	GACCGTCCCC	42180
GCTGTGAGCT	AGGCAGAGCT	CCGGAAGCC	CGCGGTGTC	AGCCCCGGCT	GCCCGGTGCG	42240
GCCAGAGCTG	TGGCCGGTTC	CTTGTGAGTC	ACAGCTCTGG	CGTGCAGGTT	TATGTGGGGG	42300
AGAGGCTGTC	GCTGCGCTTC	TGGGGCCGCG	GCGGGGCGTGG	GGCTGCCCGG	GCCGGTCGAC	42360
CAGCGGCCG	TAGCTCCCAG	GGCCCGAGCC	GCACCCGGC	GGACCCGGC	CGCGTGGCGG	42420

AGGCTGGGGA	CGCCCTTCCC	GGCCCGGTG	CGGTCCGCTC	ATCCTGGCCG	TCTGAGGC	42480
CGGCCGAATT	CGTTTCCGAG	ATCCCCGTGG	GGAGCCGGGG	ACCGTCCC	CCCCGTCCC	42540
CGGGTGC	GGAGCGGTCC	CCGGGCGGG	CCGCGGTCCC	TCTGCCC	TCCTTCTGG	42600
CGAGTCCCCG	TGGCCAGTC	GAGAGCGCTC	CCTGAGCCGG	TGC	GAGGTGC	42660
TGGCCGGCCT	TCCGGTCCC	GTGTGTC	GTCTGAGGAG	GGGCGGCG	AAAATGCTTC	42720
CGGCTCCC	TCTGGAGACA	CGGGCGG	CCTGCGTGTG	GCCAGGGCG	CCGGGAGGGC	42780
TCCCCGGCCC	GGCGCTGTCC	CCGCGTGTG	CTTGGGTTG	ACCAGAGGG	CCCCGGGCGC	42840
TCCGTGTG	GCTGCGATGG	TGGCGTTT	GGGGACAGGT	GTCCGTGTCC	GTGTCGCG	42900
TCGCTGGG	CGCGGGCGT	GTCGGTGACG	CGACCTCCC	GCCCCGGGG	AGGTATATCT	42960
TTCGCTCCG	GAATTGTTGA	CTCGGCAATT	TTGGGCGGCC	GGGTTATAT		42999

(2) INFORMATION FOR SEQ ID NO:18:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 175 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

CTCCC	GCGCG	GCCCCGTGT	TCGCCGTTCC	CGTGGCGCG	ACAATGCGGT	TGTGCGTCCA	60
CGTGTGCGT	TCCGTGCA	GCCGTTGTGG	AGTGCCTCGC	TCTCCTC	CTCCCCGGCA		120
GC	GTCCCAC	GGTTGGGAC	CACCGGTGAC	CTCGCC	CTGGGCTGG	ATCCG	175

(2) INFORMATION FOR SEQ ID NO:19:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 755 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

GGTCTGGTGG	GAATTGTTGA	CCTCGCTCTC	GGGTGCGGCC	TTTGGGAAAC	GGCGGGGT	CG	60
GTCGTGCC	GCGCCGGACG	TGTGTCGGG	CCCACTTCCC	GCTCGAGGGT	GGCGGTGGCG		120
GCGCGTTGG	TAGTCTCC	TGTTGCGTCT	TCCC	GGGCTC	TTGGGGGGGG	TGCCGTCGTT	180
TTCGGGCCG	GCGTTGCTTG	GCTTACGAG	GCTTGGTTTG	GGACTGC	GGAGAGTCGTG		240
GGCGGTGTGA	TTCCCGCCGG	TTTTGCCTCG	CGTCTGCCTG	CTTTGCCTCG	GGTTTGCTTG		300
GTTCTG	CGGGAGCGGT	GGTTTTTTT	TTTTTCGGGT	CCC	GGGGAGA	GGGGTTTTTC	360
CGGGGGACGT	TCCCGTCGCC	CCCTGCC	GGTGGGTTT	CGTTT	GGGC	TGTGTTCGTT	420
TCCCCTTCCC	CGTTTCGCCG	TCGGTTCTCC	CCGGT	CGGTC	GGCC	CGGTCGGTC	480
GCCCCGGCGT	GCTGCCGGAC	CCCCCTTCT	GGGGGGGATG	CCC	GGGCACG	CACGCGTC	540
GGCGGCCACT	GTGGTCCGGG	AGCTGCTCGG	CAGGCGGGTG	AGCCAG	GGTGG	AGGGGGGTCA	600
TGCCCCCGCG	GGCTCCCGTG	GCCGACGCCG	CGTGT	TTCTT	GGGGGGGC	GTGCGTGGG	660
GAAGGCTGCG	CACGTTGTCG	GTCCTTGCGA	GGGAAAGAGG	CTTTT	TTAGGGGGTC		720
GTCCTTCGTC	GTCCCGTCGG	CGGTGGATCC	GGCCT				755

(2) INFORMATION FOR SEQ ID NO:20:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 463 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

GGCCGAGGTG	CGTCTGCCGG	TTGGGCTCG	TCCGGCCCCG	TCGTCCCTCCG	GGAAGGCGTT	60
TAGCGGGTAC	CGTCGCCGCG	CCGAGGTGGG	CGCACGTCGG	TGAGATAACC	CCGAGCGTGT	120
TTCTGGTGTG	TGGCGGCCGG	GGCTCCGGTC	GATGTCTTC	CCTCCCCCTC	TCCCCGAGGC	180
CAGGTCAAGCC	TCCGCCCTGTG	GGCTTCGTCG	GCCGTCTCCC	CCCCCTTCAC	GTCCCTCGCG	240
AGCGAGCCCCG	TCCGTTGAC	CTTCCTTCCG	CCTTCCCCCC	ATCTTCCGC	GCTCCGTTGG	300
CCCCGGGGTT	TTCACGGCGC	CCCCCACGCT	CCTCCGCCTC	TCCGCCGTG	GTGGGACGCG	360
CTGGTTCCGG	TCTCCCCGCC	AAACCCCGGT	TGGGTTGGTC	TCCGGCCCCG	GCTTGCTCTT	420
CGGGTCTCCC	AAACCCCGGC	CGGAAGGTT	CGGGGGTTCC	GGG		463

(2) INFORMATION FOR SEQ ID NO:21:

- (i) SEQUENCE CHARACTERISTICS:

 - (A) LENGTH: 378 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

GGATTCTTCA	GGATTGAAAC	CCAAACCGGT	TCAGTTTCCT	TTCCGGCTCC	GGCCGGGGGG	60
GGCGGCCCG	GGCGGTTTGG	TGAGTTAGAT	AACCTCGGGC	CGATCGCACG	CCCCCGTGG	120
CGGCGACGAC	CCATTGAAAC	GTCTGCCCTA	TCAACTTTCG	ATGGTAGTCG	ATGTGCCTAC	180
CATGGTGACC	ACGGGTGACG	GGGAATCAGG	GTTCGATTCC	GGAGAGGGAG	CCTGAGAAC	240
GGCTACCAACA	TCCAAGGAAG	GCAGCAGGCG	CGCAAATTAC	CCACTCCCGA	CCCGGGGAGG	300
TAGTGACGAA	AAATAACAAT	ACAGGACTCT	TTCGAGGCC	TGTAATTGGA	ATGAGTCCAC	360
TTTAAATCCT	TTAACAGCAG					378

(2) INFORMATION FOR SEQ ID NO:22:

- (i) SEQUENCE CHARACTERISTICS:

 - (A) LENGTH: 378 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

GATCCATTGG	AGGGCAAGTC	TGGTGCCAGC	AGCCGCGGTA	ATTCCAGCTC	CAATAGCGTA	60
TATTAAGTT	GCTGCAGTTA	AAAAGCTCGT	AGTTGGATCT	TGGGAGCGGG	CGGGCGGTCC	120
GCCGCGAGGC	GAGTCACCGC	CCGTCCCCGC	CCCTTGCTC	TGGGCGCCCC	CTCGATGCTC	180

TTAGCTGAGT	TGTCGGCGGG	GGCCCGAAGC	GTAACTTTG	AAAAAATTAG	AGTTGTTCA	240
AAGCAGGCC	GAGCGCCTG	GATAACGCCA	GCTAGGAAAT	AATGGAATAG	GACCGCGGTT	300
CCTATTTGT	TTGGTTTCG	GAACTGAGCC	CATGATTAAG	GGAAACGCC	GGGGGCATTC	360
CCTTATTGCG	CCCCCTA					378

(2) INFORMATION FOR SEQ ID NO:23:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 719 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

GGATCTTCC	CGCTCCCCGT	TCCTCCGGC	CCCTCCACCC	GCGCGTCTCC	CCCCTCTTT	60
TCCCTCTCC	GGAGGGGGGG	GAGGTGGGG	CGCGTGGGG	GGGTGGGGGG	TGGGGTGGC	120
GGGGGACCGC	CCCCGGCCGG	CAAAAGGCCG	CCGCCGGGCG	CACTTCAACC	GTAGCGGTGC	180
GCGCGACCCG	GCTACGAGAC	GGCTGGGAAG	GCCCGACGGG	GAATGTGGCT	GGGGGGGGGC	240
GGCGCGTCTC	AGGGCGCGCC	GAACCACCTC	ACCCCGAGTG	TTACAGCCCT	CCGGCCGCGC	300
TTTCGCGGAA	TCCCGGGGCC	GAGGGGAAGC	CCGATACCCG	TCGCCGCGCT	TTTCCCTCC	360
CCCCGTCCGC	CTCCCGGGCG	GGCGTGGGG	TGGGGGCCGG	GCCGCCCTC	CCACGCCCGT	420
GGTTTCTCTC	TCTCCCGGTC	TCGGCCGGTT	TGGGGGGGGG	AGCCCGGTTG	GGGGCGGGGC	480
GGACTGTCTC	CAGTGCGCC	CGGGCGTCGT	CGCGCCGTCG	GGCCCCGGGG	GTTCTCTCGG	540
TCACGCCGCC	CCGACGAAG	CCGAGCGCAC	GGGGTCGGCG	GCGATGTCGG	CTACCCACCC	600
GACCGGTCTT	GAAACACGGA	CCAAGGAGTC	TAACCGGTGC	GCGAGTCAGG	GGCTCGCACG	660
AAAGCCGCCG	TGGCGCAATG	AAGGTGAAGG	GCCCCGTCCG	GGGGCCCGAG	GTGGGATCC	719

(2) INFORMATION FOR SEQ ID NO:24:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 685 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

CGAGGCCCTCT	CCAGTCGCC	GAGGGCGCAC	CACCGGCCCG	TCTGCCCGC	CGCGTCGGGG	60
AGGTGGAGCA	CGAGCGTACG	CGTTAGGACC	CGAAAGATGG	TGAACATATGC	CTGGGCAGGG	120
CGAAGCCAGA	GGAAACTCTG	GTGGAGGTCC	GTAGCGGTCC	TGACGTGCAA	ATCGGTCTGC	180
CGACCTGGGT	ATAGGGCGA	AAGACTAATC	GAACCATCTA	GTAGCTGGTT	CCCTCCGAAG	240
TTTCCCTCAG	GATAGCTGGC	GCTCTCGAA	CCTTCGGAAG	CAGTTTATC	CGGGTAAAGG	300
CGGAATGGAT	TAGGAGGTCT	TGGGGCCGGA	AACGATCTCA	AACTATTCT	CAAACCTTAA	360
ATGGGTAAGG	AAGCCCGGT	CGCTGGCGTG	GAGCCGGGCG	TGGAATGCGA	GTGCCTAGTG	420
GGCCACTTT	GGTAAGCAGA	ACTGGCGCTG	CGGGATGAAC	CGAACGCCGG	GTAAAGGCC	480
CCGATGCCGA	CGCTCATCAG	ACCCCAAGAAA	AGGTGTTGGT	TGATATAGAC	AGCAGGACGG	540
TGGCCATGGA	AGTCGGAATC	CGCTAAGGAG	TGTGTAACAA	CTCACCTGCC	GAATCAACTA	600
GCCCTGAAAA	TGGATGGCGC	TGGAGCGTCG	GGCCCATACC	CGGCCGTGCG	CGGCAGTCGG	660
AACGGGACGG	GACGGGAGCG	GCCGC				685

(2) INFORMATION FOR SEQ ID NO:25:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 33 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

GAGGAATTCC CCTATCCCTA ATCCAGATTG GTG

33

(2) INFORMATION FOR SEQ ID NO:26:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 35 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

AAACTGCAGG CCGAGCCACC TCTCTCTGT GTTG

35

(2) INFORMATION FOR SEQ ID NO:27:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 33 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

AGGAATTCAC AGAAGAGAGG TGGCTCGGCC TGC

33

(2) INFORMATION FOR SEQ ID NO:28:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 34 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

AGCCTGCAGG AAGTCATACC TGGGGAGGTG GCCC

34

(2) INFORMATION FOR SEQ ID NO:29:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 80 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

AAACTGCAGG TTAATTAACC CTAACCCTAA CCCTAACCCCT AACCTAACCC CTAACCCTAA
CCCTAACCCCT AACCCGGGAT60
80

(2) INFORMATION FOR SEQ ID NO:30:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

TTGGGCCCTA GGCTTAAGG

19

(2) INFORMATION FOR SEQ ID NO:31:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 25 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

GCCAGGGTTT TCCCGAGTCAC GACGT

25

(2) INFORMATION FOR SEQ ID NO:32:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 26 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

GCTGCAAGGC GATTAAGTTG GGTAAC

26

(2) INFORMATION FOR SEQ ID NO:33:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 26 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

TATGTTGTGT GGAATTGTGA GCGGAT

26

(2) INFORMATION FOR SEQ ID NO:34:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 21 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:

GGGTTTAAAC AGATCTCTGC A

21